

Analytical Data Package Prepared For

Fluor Handord

Radiochemical Analysis By

STL Richland STLRL

2800 G.W. Way, Richland Wa, 99354, (509)-375-3131.

Data Package Contains _____ Pages

Report Nbr: 35704

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05172	I07-027	B1M6K6	J7E040299-1	JWA5N1AA	9JWA5N10	7129613
	S07-004	B1MRD9	J7E040306-1	JWA581AA	9JWA5810	7129620
		B1MRD9	J7E040306-1	JWA581AC	9JWA5810	7129617
		B1MRD9	J7E040306-1	JWA581AD	9JWA5810	7129618
		B1MRD9	J7E040306-1	JWA581AE	9JWA5810	7129613
	W07-005	B1N4J6	J7E040342-1	JWCG11AA	9JWCG110	7129619
		B1N4J6	J7E040342-1	JWCG11AD	9JWCG110	7129616
		B1N4J6	J7E040342-1	JWCG12AC	9JWCG120	7171388
		B1N4L5	J7E040342-2	JWCHW1A	9JWCHW10	7129620
		B1N4L5	J7E040342-2	JWCHW1A	9JWCHW10	7129619
		B1N4L5	J7E040342-2	JWCHW1AE	9JWCHW10	7129616
		B1N4L5	J7E040342-2	JWCHW2A	9JWCHW20	7171388
		B1N4M0	J7E040342-3	JWCJC1AA	9JWCJC10	7129620
		B1N4M0	J7E040342-3	JWCJC1AC	9JWCJC10	7129619
		B1N4M0	J7E040342-3	JWCJC1AE	9JWCJC10	7129616

Comments:

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SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05172	W07-005	B1N4M0	J7E040342-3	JWCJC1AF	9JWCJC10	7129612
		B1N4M5	J7E040342-4	JWCJM1AA	9JWCJM10	7129620
		B1N4M5	J7E040342-4	JWCJM1AC	9JWCJM10	7129619
		B1N4M5	J7E040342-4	JWCJM1AE	9JWCJM10	7129616
		B1N4M5	J7E040342-4	JWCJM2AD	9JWCJM20	7171388
		B1N4K1	J7E070107-1	JWEPC1AA	9JWEPC10	7129620
		B1N4K1	J7E070107-1	JWEPC1AC	9JWEPC10	7129618
		B1N4K1	J7E070107-1	JWEPC1AE	9JWEPC10	7129612
		B1N4K1	J7E070107-1	JWEPC1AF	9JWEPC10	7129616
		B1N4K5	J7E070107-2	JWEPG1AA	9JWEPG10	7129620
		B1N4K5	J7E070107-2	JWEPG1AC	9JWEPG10	7129612
		B1N4K5	J7E070107-2	JWEPG1AD	9JWEPG10	7129616
		B1N4K6	J7E070107-3	JWEPK1AA	9JWEPK10	7129620
		B1N4K6	J7E070107-3	JWEPK1AC	9JWEPK10	7129612
		B1N4K6	J7E070107-3	JWEPK1AD	9JWEPK10	7129616
		B1N4R9	J7E070107-4	JWEPP1AA	9JWEPP10	7129620
		B1N4R9	J7E070107-4	JWEPP1AC	9JWEPP10	7129612
		B1N4R9	J7E070107-4	JWEPP1AD	9JWEPP10	7129616
		B1N4T4	J7E070107-5	JWEPQ1AA	9JWEPQ10	7129620
		B1N4T4	J7E070107-5	JWEPQ1AC	9JWEPQ10	7129617
		B1N4T4	J7E070107-5	JWEPQ1AD	9JWEPQ10	7129618
		B1N4T4	J7E070107-5	JWEPQ1AE	9JWEPQ10	7129612
		B1N4T4	J7E070107-5	JWEPQ1AF	9JWEPQ10	7129616
		B1N4T6	J7E070107-6	JWEPW1AA	9JWEPW10	7129620
		B1N4T6	J7E070107-6	JWEPW1AE	9JWEPW10	7129616
		B1N4T6	J7E070107-6	JWEPW2AD	9JWEPW20	7171388

Comments:

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SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05172	W07-005	B1N541	J7E070107-7	JWFA81AA	9JWFA810	7129617
		B1N541	J7E070107-7	JWFA81AC	9JWFA810	7129618
	S07-003	B1MF90	J7E070109-1	JWEP11AA	9JWEP110	7129621
		B1MDN5	J7E070109-2	JWEP51AA	9JWEP510	7129617
		B1MDN5	J7E070109-2	JWEP51AC	9JWEP510	7129618
		B1MDN5	J7E070109-2	JWEP51AD	9JWEP510	7129616
		B1MDN7	J7E070109-3	JWEP61AA	9JWEP610	7129617
		B1MDN7	J7E070109-3	JWEP61AC	9JWEP610	7129618
		B1MDN7	J7E070109-3	JWEP61AD	9JWEP610	7129616
		B1MDN8	J7E070109-4	JWEP81AA	9JWEP810	7129617
		B1MDN8	J7E070109-4	JWEP81AC	9JWEP810	7129618
		B1MDN8	J7E070109-4	JWEP81AD	9JWEP810	7129616
	S07-004	B1MRM5	J7E070112-1	JWEQK1AA	9JWEQK10	7129620
		B1MRM5	J7E070112-1	JWEQK1AC	9JWEQK10	7129613
	I07-044	B1N357	J7E080312-1	JWH5W1AA	9JWH5W10	7129613
		B1N357	J7E080312-1	JWH5W2AC	9JWH5W20	7171388
	S07-005	B1N3Y1	J7E080313-1	JWH501AA	9JWH5010	7129620
		B1N3Y1	J7E080313-1	JWH501AC	9JWH5010	7129613
		B1N3Y1	J7E080313-1	JWH501AD	9JWH5010	7129616

Comments:



STL

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Certificate of Analysis

Fluor Hanford
1200 Jadwin Ave.
Richland, WA 99352

June 25, 2007

Attention: Steve Trent

SAF Number	:	I07-027, W07-005, S07-003, S07-004, I07-044, S07-005
Date SDG Closed	:	May 7, 2007
Number of Samples	:	Nineteen (19)
Sample Type	:	Water
SDG Number	:	W05172
Data Deliverable	:	45-Day / Summary

CASE NARRATIVE

I. Introduction

Between May 3, 2007 and May 7, 2007 nineteen water samples were received at STL Richland (STLR) for radiochemical analysis. Upon receipt, the samples were assigned the following laboratory ID numbers to correspond with the Pacific Northwest National Laboratories (PGW) specific IDs:

<u>PGW ID#</u>	<u>STLR ID#</u>	<u>DATE OF RECEIPT</u>	<u>MATRIX</u>
B1M6K6	JWA5N	5/03/07	WATER
B1N4J6	JWCD1	5/03/07	WATER
B1N4L5	JWCHW	5/03/07	WATER
B1N4M0	JWCJC	5/03/07	WATER
B1N4M5	JWCJM	5/03/07	WATER
B1N4K1	JWEPC	5/04/07	WATER
B1N4K5	JWEPG	5/04/07	WATER
B1N4K6	JWEPK	5/04/07	WATER
B1N4R9	JWEPD	5/04/07	WATER
B1N4T4	JWEPQ	5/04/07	WATER
B1N541	JWFA8	5/04/07	WATER
B1N4T6	JWEPW	5/04/07	WATER
B1MF90	JWEP1	5/04/07	WATER

B1MDN5	JWEP5	5/04/07	WATER
B1MDN7	JWEP6	5/04/07	WATER
B1MDN8	JWEP8	5/04/07	WATER
B1MRM5	JWEQK	5/04/07	WATER
B1N357	JWH5W	5/07/07	WATER
B1N3Y1	JWH50	5/07/07	WATER

II. Sample Receipt

The samples were received in good condition and no anomalies were noted during check-in.

III. Analytical Results/Methodology

The analytical results for this report are presented by laboratory sample ID. Each set of data includes sample identification information, analytical results and the appropriate associated statistical errors.

The requested analyses were:

Gas Proportional Counting

Gross Alpha by method RICH-RC-5014

Gross Beta by method RICH-RC-5014

Gamma Spectroscopy

Gamma Spec (LL) by method RICH-RC-5017

Iodine-129 (LL) by method RICH-RC-5025

Liquid Scintillation Counting

Enriched Tritium by method RICH-RC-5024

Technetium-99 by TEVA method RICH-RC-5065

Technetium-99 by method RICH-RC-5078

Tritium by method RICH-RC-5007

Laser Induced Phosphorimetry

Total Uranium by method RICH-RC-5058

IV. Quality Control

The analytical results for each analysis performed includes a minimum of one laboratory control sample (LCS), one method (reagent) blank, and one duplicate sample analysis. Any exceptions have been noted in the "Comments" section.

QC and sample results are reported in the same units.

V. Comments

Gas Proportional Counting

Gross Alpha by method RICH-RC-5014:

The volume was reduced on sample B1N4T4 based on the elevated screen result. Except as noted, the LCS, batch blank, samples and sample duplicate (B1MDN5) results are within contractual requirements.

Gross Beta by method RICH-RC-5014:

Reduced volumes were analyzed based on an elevated screen results for samples B1MDN7, B1N4K1 and B1MDN7. Sample B1N4K1 does not meet the CRDL, however the sample result exceeds the MDA. Except as noted, the LCS, batch blank, samples and sample duplicate (B1MDN7) results are within contractual requirements.

Gamma Spectroscopy

Gamma Spec (LL) by method RICH-RC-5017:

The LCS, batch blank, samples and sample duplicate (B1N4J6) results are within contractual requirements.

Iodine-129 (LL) by method RICH-RC-5025:

The LCS, batch blank, samples and sample duplicate (B1M6K6) results are within contractual requirements.

Liquid Scintillation Counting

Technetium-99 by TEVA method RICH-RC-5065:

The LCS, batch blank, samples, sample duplicate (B1D2J2), and sample matrix spike (B1D2J9) results are within contractual requirements.

Technetium-99 by method RICH-RC-5078:

The original counts of this Tc99 batch the TSIE was out and the batch could not be calculated. The samples were shaken, rewiped and recounted. The batch was recounted and the TSIE was still out. After consideration by the QA Manager and the Technical Director, the decision was made to extend the upper limits of the curve to 480. The samples were able to be calculated acceptable. Except as noted, LCS, batch blank, samples, sample duplicate (B1N357), and sample matrix spike (B1N4T6) results are within contractual requirements.

Tritium by method RICH-RC-5007:

The LCS, batch blank, samples and sample duplicate (B1N4K6) results are within contractual requirements.

Enriched Tritium by method RICH-RC-5024

The LCS, batch blank, samples and sample duplicate (B1MF90) results are within contractual requirements.

Pacific Northwest National Laboratories
June 25, 2007

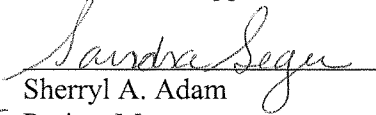
Total Uranium

Total Uranium by method RICH-RC-5058:

The LCS, batch blank, samples, sample duplicate (B1N3Y1), and sample matrix spike (B1MDN5) results are within contractual requirements.

I certify that this Certificate of Analysis is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager, or a designee as verified by the following signature.

Reviewed and approved:


for Sherryl A. Adam
Project Manager

Drinking Water Method Cross References

DRINKING WATER ASTM METHOD CROSS REFERENCES		
Referenced Method	Isotope(s)	STL Richland's SOP number
EPA 901.1	Cs-134, I-131	RICH-RC-5017
EPA 900.0	Alpha & Beta	RICH-RC-5014
EPA 903.1	Ra-226	RICH-RC-5005
EPA 904.0	Ra-228	RICH-RC-5005
EPA 905.0	Sr89/90	RICH-RC-5006
ASTM D2460	Total Radium	RICH-RC-5027
Standard Method 7500-U-C & ASTM D5174	Uranium	RICH-RC-5058
EPA 906.0	Tritium	RICH-RC-5007
NOTE:		
The Gross Alpha LCS is prepared with Am-241 (unless otherwise specified in the case narrative)		
The Gross Beta LCS is prepared with Sr/Y-90 (unless otherwise specified in the case narrative)		

Uncertainty Estimation

STL Richland has adopted the internationally accepted approach to estimating uncertainties described in "NIST Technical Note 1297, 1994 Edition". The approach, "Law of Propagation of Errors", involves the identification of all variables in an analytical method which are used to derive a result. These variables are related to the analytical result (R) by some functional relationship, $R = \text{constants} * f(x, y, z, \dots)$. The components (x,y,z) are evaluated to determine their contribution to the overall method uncertainty. The individual component uncertainties (u_i) are then combined using a statistical model that provides the most probable overall uncertainty value. All component uncertainties are categorized as type A, evaluated by statistical methods, or type B, evaluated by other means. Uncertainties not included in the components, such as sample homogeneity, are combined with the component uncertainty as the square root of the sum-of-the-squares of the individual uncertainties. The uncertainty associated with the derived result is the combined uncertainty (u_c) multiplied by the coverage factor (1,2, or 3).

When three or more sample replicates are used to derive the analytical result, the type A uncertainty is the standard deviation of the mean value (S/\sqrt{n}), where S is the standard deviation of the derived results. The type B uncertainties are all other random or non-random components that are not included in the standard deviation.

The derivation of the general "Law of Propagation of Errors" equations and specific example are available on request.

Report Definitions

Action Lev	An agreed upon activity level used to trigger some action when the final result is greater than or equal to the Action Level. Often the Action Level is related to the Decision Limit.
Batch	The QC preparation batch number that relates laboratory samples to QC samples that were prepared and analyzed together.
Bias	Defined by the equation (Result/Expected)-1 as defined by ANSI N13.30.
COC No	Chain of Custody Number assigned by the Client or STL Richland.
Count Error (#s)	Poisson counting statistics of the gross sample count and background. The uncertainty is absolute and in the same units as the result. For Liquid Scintillation Counting (LSC) the batch blank count is the background.
Total Uncert (#s) <i>u_c - Combined Uncertainty.</i>	All known uncertainties associated with the preparation and analysis of the sample are propagated to give a measure of the uncertainty associated with the result, <i>u_c the combined uncertainty</i> . The uncertainty is absolute and in the same units as the result.
(#s), Coverage Factor	The coverage factor defines the width of the confidence interval, 1, 2 or 3 standard deviations.
CRDL (RL)	Contractual Required Detection Limit as defined in the Client's Statement Of Work or STL Richland "default" nominal detection limit. Often referred to the reporting level (RL)
Lc	Decision Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume associated with the sample. The Type I error probability is approximately 5%. $Lc = (1.645 * \text{Sqrt}(2 * (\text{BkgndCnt}/\text{BkgndCntMin}) / \text{SCntMin})) * (\text{ConvFct}/(\text{Eff} * \text{Yld} * \text{Abn} * \text{Vol}) * \text{IngrFct})$. For LSC methods the batch blank is used as a measure of the background variability. Lc cannot be calculated when the background count is zero.
Lot-Sample No	The number assigned by the LIMS software to track samples received on the same day for a given client. The sample number is a sequential number assigned to each sample in the Lot.
MDC MDA	Detection Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume with a Type I and II error probability of approximately 5%. $MDC = (4.65 * \text{Sqrt}((\text{BkgndCnt}/\text{BkgndCntMin}) / \text{SCntMin}) + 2.71 / \text{SCntMin}) * (\text{ConvFct}/(\text{Eff} * \text{Yld} * \text{Abn} * \text{Vol}) * \text{IngrFct})$. For LSC methods the batch blank is used as a measure of the background variability.
Primary Detector	The instrument identifier associated with the analysis of the sample aliquot.
Ratio U-234/U-238	The U-234 result divided by the U-238 result. The U-234/U-238 ratio for natural uranium in NIST SRM 4321C is 1.038.
Rst/MDC	Ratio of the Result to the MDC. A value greater than 1 may indicate activity above background at a high level of confidence. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Rst/TotUcert	Ratio of the Result to the Total Uncertainty. If the uncertainty has a coverage factor of 2 a value greater than 1 may indicate activity above background at approximately the 95% level of confidence assuming a two-sided confidence interval. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Report DB No	Sample Identifier used by the report system. The number is based upon the first five digits of the Work Order Number.
RER	The equation Replicate Error Ratio = $(S-D)/[\text{sqrt}(\text{TPUs}^2 + \text{TPUd}^2)]$ as defined by ICPT BOA where S is the original sample result, D is the result of the duplicate, TPUs is the total uncertainty of the original sample and TPUd is the total uncertainty of the duplicate sample.
SDG	Sample Delivery Group Number assigned by the Client or assigned by STL Richland upon sample receipt.
Sum Rpt Alpha Spec Rst(s)	The sum of the reported alpha spec results for tests derived from the same sample excluding duplicate result where the results are in the same units.
Work Order	The LIMS software assign test specific identifier.
Yield	The recovery of the tracer added to the sample such as Pu-242 used to trace a Pu-239/40 method.

6/25/2007 8:43:23 AM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 35704 File Name: h:\Reportdb\ledd\Fead\I\Rad\W05172.Edd, h:\Reportdb\ledd\Fead\I\Rad\35704.Edd

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:				
9JWA5810	B1MRD9		MW6-SBB-A1	S07-004	W05172						05/03/2007 08:46			
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7129620	H-3	10028-17-8	8.38E+03	pCi/L	3.2E+02	4.7E+02		2.98E+02	100.0	906.0_H3_LSC	5.00E-03	L	06/16/2007 10:33	I
7129617	ALPHA	12587-46-1	2.67E+00	pCi/L	1.6E+00	1.7E+00		1.70E+00	100.0	9310_ALPHABETA	1.995E-01	L	06/18/2007 19:55	I
7129618	BETA	12587-47-2	7.14E+00	pCi/L	1.8E+00	2.2E+00		2.85E+00	100.0	9310_ALPHABETA	1.981E-01	L	06/18/2007 17:36	I
7129613	I-129L	15046-84-1	1.66E+00	pCi/L	3.9E-01	3.9E-01	U	6.61E-01	96.5	I129LL_SEP_LEPS	3.9349E+00	L	06/15/2007 12:20	I
Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:				
9JWA5N10	B1M6K6		MW6-SBB-A1	I07-027	W05172						05/03/2007 11:27			
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7129613	I-129L	15046-84-1	2.08E+00	pCi/L	4.5E-01	4.5E-01		3.31E-01	96.5	I129LL_SEP_LEPS	3.9053E+00	L	06/15/2007 12:18	I
Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:				
9JWCG110	B1N4J6		MW6-SBB-A1	W07-005	W05172						05/03/2007 12:13			
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7129619	BE-7	13966-02-4	-1.37E+01	pCi/L	4.0E+01	4.0E+01	U	6.75E+01		GAMMALL_GS	1.9921E+00	L	06/20/2007 17:02	I
7129619	CO-60	10198-40-0	4.76E+01	pCi/L	1.0E+01	1.0E+01		5.14E+00		GAMMALL_GS	1.9921E+00	L	06/20/2007 17:02	I
7129619	CS-134	13967-70-9	3.18E-01	pCi/L	3.2E+00	3.2E+00	U	5.88E+00		GAMMALL_GS	1.9921E+00	L	06/20/2007 17:02	I
7129619	CS-137	10045-97-3	6.86E-01	pCi/L	3.1E+00	3.1E+00	U	5.74E+00		GAMMALL_GS	1.9921E+00	L	06/20/2007 17:02	I
7129619	EU-152	14683-23-9	2.66E+00	pCi/L	6.3E+00	6.3E+00	U	1.18E+01		GAMMALL_GS	1.9921E+00	L	06/20/2007 17:02	I
7129619	EU-154	15585-10-1	-2.08E-01	pCi/L	5.9E+00	5.9E+00	U	1.16E+01		GAMMALL_GS	1.9921E+00	L	06/20/2007 17:02	I
7129619	EU-155	14391-16-3	-2.59E+00	pCi/L	5.2E+00	5.2E+00	U	8.86E+00		GAMMALL_GS	1.9921E+00	L	06/20/2007 17:02	I
7129619	K-40	13966-00-2	1.40E+01	pCi/L	6.2E+01	6.2E+01	U	1.38E+02		GAMMALL_GS	1.9921E+00	L	06/20/2007 17:02	I
7129619	RU-106	13967-48-1	-6.03E+00	pCi/L	2.8E+01	2.8E+01	U	4.91E+01		GAMMALL_GS	1.9921E+00	L	06/20/2007 17:02	I
7129619	SB-125	14234-35-6	-3.78E+00	pCi/L	6.9E+00	6.9E+00	U	1.16E+01		GAMMALL_GS	1.9921E+00	L	06/20/2007 17:02	I
7129616	Uranium	7440-61-1	3.65E+01	ug/L	4.3E+00	4.3E+00		7.79E-02		UTOT_KPA	2.69E-02	ML	06/19/2007 14:31	I
Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:				
9JWCG120	B1N4J6		MW6-SBB-A1	W07-005	W05172						05/03/2007 12:13			
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7171388	TC-99	14133-76-7	2.14E+04	pCi/L	9.6E+01	1.3E+03		1.27E+01	100.0	TC99_ETVDSK_LS	1.257E-01	L	06/20/2007 21:00	I

6/25/2007 8:43:24 AM

STL Richland Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

Version: 05

Rpt Nbr: 35704

File Name: h:\Reportdb\ledd\Fead\I\Rad\W05172.Edd, h:\Reportdb\ledd\Fead\I\Rad\35704.Edd

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:				
9JWCHW10	B1N4L5		MW6-SBB-A1	W07-005	W05172					05/03/2007 09:55				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7129620	H-3	10028-17-8	3.31E+04	pCi/L	6.0E+02	1.4E+03		2.97E+02	100.0	906.0_H3_LSC	5.00E-03	L	06/16/2007 11:55	I
7129619	BE-7	13966-02-4	9.14E+00	pCi/L	3.5E+01	3.5E+01	U	6.51E+01		GAMMALL_GS	1.997E+00	L	06/20/2007 19:02	I
7129619	CO-60	10198-40-0	2.06E+01	pCi/L	6.9E+00	6.9E+00		4.33E+00		GAMMALL_GS	1.997E+00	L	06/20/2007 19:02	I
7129619	CS-134	13967-70-9	2.40E-01	pCi/L	2.7E+00	2.7E+00	U	5.08E+00		GAMMALL_GS	1.997E+00	L	06/20/2007 19:02	I
7129619	CS-137	10045-97-3	-2.26E-01	pCi/L	3.0E+00	3.0E+00	U	5.29E+00		GAMMALL_GS	1.997E+00	L	06/20/2007 19:02	I
7129619	EU-152	14683-23-9	4.70E+00	pCi/L	7.2E+00	7.2E+00	U	1.35E+01		GAMMALL_GS	1.997E+00	L	06/20/2007 19:02	I
7129619	EU-154	15585-10-1	-5.05E-01	pCi/L	8.0E+00	8.0E+00	U	1.49E+01		GAMMALL_GS	1.997E+00	L	06/20/2007 19:02	I
7129619	EU-155	14391-16-3	-1.61E+00	pCi/L	4.9E+00	4.9E+00	U	8.42E+00		GAMMALL_GS	1.997E+00	L	06/20/2007 19:02	I
7129619	K-40	13966-00-2	6.65E+01	pCi/L	7.2E+01	7.2E+01	U	4.74E+01		GAMMALL_GS	1.997E+00	L	06/20/2007 19:02	I
7129619	RU-106	13967-48-1	-1.48E+00	pCi/L	2.4E+01	2.4E+01	U	4.31E+01		GAMMALL_GS	1.997E+00	L	06/20/2007 19:02	I
7129619	SB-125	14234-35-6	-1.05E+00	pCi/L	6.4E+00	6.4E+00	U	1.12E+01		GAMMALL_GS	1.997E+00	L	06/20/2007 19:02	I
7129616	Uranium	7440-61-1	2.66E+02	ug/L	3.1E+01	3.1E+01		8.35E-02		UTOT KPA	2.51E-02	ML	06/19/2007 14:35	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:				
9JWCHW20	B1N4L5		MW6-SBB-A1	W07-005	W05172					05/03/2007 09:55				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7171388	TC-99	14133-76-7	9.67E+03	pCi/L	6.5E+01	5.8E+02		1.27E+01	100.0	TC99 ETVDSK LS	1.258E-01	L	06/20/2007 21:42	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:				
9JWCJC10	B1N4M0		MW6-SBB-A1	W07-005	W05172					05/03/2007 10:56				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7129620	H-3	10028-17-8	9.84E+03	pCi/L	3.4E+02	5.2E+02		2.97E+02	100.0	906.0_H3_LSC	5.00E-03	L	06/16/2007 13:16	I
7129619	BE-7	13966-02-4	-1.03E+01	pCi/L	4.0E+01	4.0E+01	U	6.95E+01		GAMMALL_GS	2.002E+00	L	06/20/2007 22:10	I
7129619	CO-60	10198-40-0	7.21E+01	pCi/L	1.3E+01	1.3E+01		4.32E+00		GAMMALL_GS	2.002E+00	L	06/20/2007 22:10	I
7129619	CS-134	13967-70-9	1.18E-01	pCi/L	3.6E+00	3.6E+00	U	6.52E+00		GAMMALL_GS	2.002E+00	L	06/20/2007 22:10	I
7129619	CS-137	10045-97-3	-2.88E+00	pCi/L	2.7E+00	2.7E+00	U	4.22E+00		GAMMALL_GS	2.002E+00	L	06/20/2007 22:10	I
7129619	EU-152	14683-23-9	2.78E+00	pCi/L	7.0E+00	7.0E+00	U	1.30E+01		GAMMALL_GS	2.002E+00	L	06/20/2007 22:10	I
7129619	EU-154	15585-10-1	-3.64E+00	pCi/L	8.0E+00	8.0E+00	U	1.39E+01		GAMMALL_GS	2.002E+00	L	06/20/2007 22:10	I
7129619	EU-155	14391-16-3	-1.71E+00	pCi/L	5.3E+00	5.3E+00	U	9.12E+00		GAMMALL_GS	2.002E+00	L	06/20/2007 22:10	I
7129619	K-40	13966-00-2	2.73E+01	pCi/L	6.3E+01	6.3E+01	U	1.41E+02		GAMMALL_GS	2.002E+00	L	06/20/2007 22:10	I

STL Richland

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.

J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).

B Qual- Analyte was found in the associated laboratory blank above the MDC.

rptFeadRadSummaryEdd v3.48

6/25/2007 8:43:24 AM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 35704 File Name: h:\Reportdb\edd\Fead\VRad\W05172.Edd, h:\Reportdb\edd\Fead\VRad\35704.Edd

7129619	RU-106	13967-48-1	1.22E+01	pCi/L	2.7E+01	2.7E+01	U	5.08E+01		GAMMALL_GS	2.002E+00	L	06/20/2007 22:10	I
7129619	SB-125	14234-35-6	1.30E+00	pCi/L	7.0E+00	7.0E+00	U	1.27E+01		GAMMALL_GS	2.002E+00	L	06/20/2007 22:10	I
7129612	TC-99	14133-76-7	2.06E+04	pCi/L	8.1E+01	1.2E+03		1.06E+01	100.0	TC99_SEP_LSC	1.248E-01	L	06/19/2007 10:39	I
7129616	Uranium	7440-61-1	5.04E+00	ug/L	5.2E-01	5.2E-01		8.28E-02		UTOT_KPA	2.53E-02	ML	06/19/2007 14:37	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%*:	Distilled Volume	Sample On Date:	Collection Date:				
9JWCJM10	B1N4M5		MW6-SBB-A1	W07-005	W05172					05/03/2007 12:42				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7129620	H-3	10028-17-8	5.52E+03	pCi/L	2.7E+02	3.6E+02		2.98E+02	100.0	906.0_H3_LSC	5.00E-03	L	06/16/2007 14:38	I
7129619	BE-7	13966-02-4	-1.04E+01	pCi/L	2.3E+01	2.3E+01	U	3.92E+01		GAMMALL_GS	2.0006E+00	L	06/20/2007 22:14	I
7129619	CO-60	10198-40-0	8.97E+00	pCi/L	3.9E+00	3.9E+00		3.72E+00		GAMMALL_GS	2.0006E+00	L	06/20/2007 22:14	I
7129619	CS-134	13967-70-9	-2.04E-01	pCi/L	1.9E+00	1.9E+00	U	3.57E+00		GAMMALL_GS	2.0006E+00	L	06/20/2007 22:14	I
7129619	CS-137	10045-97-3	1.16E-01	pCi/L	1.8E+00	1.8E+00	U	3.37E+00		GAMMALL_GS	2.0006E+00	L	06/20/2007 22:14	I
7129619	EU-152	14683-23-9	-1.00E+00	pCi/L	4.9E+00	4.9E+00	U	8.51E+00		GAMMALL_GS	2.0006E+00	L	06/20/2007 22:14	I
7129619	EU-154	15585-10-1	8.08E-03	pCi/L	5.4E+00	5.4E+00	U	1.03E+01		GAMMALL_GS	2.0006E+00	L	06/20/2007 22:14	I
7129619	EU-155	14391-16-3	-4.65E+00	pCi/L	4.2E+00	4.2E+00	U	6.64E+00		GAMMALL_GS	2.0006E+00	L	06/20/2007 22:14	I
7129619	K-40	13966-00-2	8.99E+00	pCi/L	2.6E+01	2.6E+01	U	5.90E+01		GAMMALL_GS	2.0006E+00	L	06/20/2007 22:14	I
7129619	RU-106	13967-48-1	8.16E-01	pCi/L	1.8E+01	1.8E+01	U	3.18E+01		GAMMALL_GS	2.0006E+00	L	06/20/2007 22:14	I
7129619	SB-125	14234-35-6	2.05E+00	pCi/L	4.4E+00	4.4E+00	U	8.36E+00		GAMMALL_GS	2.0006E+00	L	06/20/2007 22:14	I
7129616	Uranium	7440-61-1	3.27E+02	ug/L	3.9E+01	3.9E+01		8.28E-02		UTOT_KPA	2.53E-02	ML	06/19/2007 14:43	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%*:	Distilled Volume	Sample On Date:	Collection Date:				
9JWCJM20	B1N4M5		MW6-SBB-A1	W07-005	W05172					05/03/2007 12:42				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7171388	TC-99	14133-76-7	4.98E+03	pCi/L	4.7E+01	3.0E+02		1.27E+01	100.0	TC99_ETVDSK_LS	1.253E-01	L	06/20/2007 22:23	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%*:	Distilled Volume	Sample On Date:	Collection Date:				
9JWEP110	B1MF90		MW6-SBB-A1	S07-003	W05172					05/04/2007 12:07				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7129621	H-3	10028-17-8	1.16E+02	pCi/L	1.0E+01	2.3E+01		5.94E+00	100.0	TRITIUM_ELECT_L	1.50E-01	L	06/15/2007 02:11	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%*:	Distilled Volume	Sample On Date:	Collection Date:				
9JWEP510	B1MDN5		MW6-SBB-A1	S07-003	W05172					05/04/2007 10:36				

6/25/2007 8:43:24 AM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 35704 File Name: h:\Reportdb\ledd\Fead\I\Rad\W05172.Edd, h:\Reportdb\ledd\Fead\I\Rad\35704.Edd

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7129617	ALPHA	12587-46-1	8.93E+00	pCi/L	2.9E+00	3.6E+00		2.24E+00	100.0	9310_ALPHABETA	2.007E-01	L	06/18/2007 19:55	I
7129618	BETA	12587-47-2	1.92E+01	pCi/L	2.4E+00	3.4E+00		2.93E+00	100.0	9310_ALPHABETA	1.984E-01	L	06/18/2007 17:36	I
7129616	Uranium	7440-61-1	1.90E+01	ug/L	2.2E+00	2.2E+00		7.51E-02		UTOT_KPA	2.79E-02	ML	06/19/2007 15:02	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JWEP610	B1MDN7		MW6-SBB-A1	S07-003	W05172					05/04/2007 11:23

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7129617	ALPHA	12587-46-1	2.06E+00	pCi/L	1.5E+00	1.5E+00		1.89E+00	100.0	9310_ALPHABETA	2.006E-01	L	06/18/2007 19:55	I
7129618	BETA	12587-47-2	1.70E+01	pCi/L	2.5E+00	4.0E+00		3.10E+00	100.0	9310_ALPHABETA	1.849E-01	L	06/18/2007 17:36	I
7129616	Uranium	7440-61-1	1.90E+01	ug/L	2.3E+00	2.3E+00		8.25E-02		UTOT_KPA	2.54E-02	ML	06/19/2007 15:06	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JWEP810	B1MDN8		MW6-SBB-A1	S07-003	W05172					05/04/2007 11:23

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7129617	ALPHA	12587-46-1	-4.18E-02	pCi/L	3.1E-01	3.1E-01	U	1.04E+00	100.0	9310_ALPHABETA	1.994E-01	L	06/18/2007 20:59	I
7129618	BETA	12587-47-2	6.22E-01	pCi/L	1.2E+00	1.2E+00	U	2.58E+00	100.0	9310_ALPHABETA	1.987E-01	L	06/18/2007 17:37	I
7129616	Uranium	7440-61-1	1.93E-02	ug/L	2.3E-03	2.3E-03	U	7.59E-02		UTOT_KPA	2.76E-02	ML	06/19/2007 15:08	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JWEPC10	B1N4K1		MW6-SBB-A1	W07-005	W05172					05/04/2007 11:30

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7129620	H-3	10028-17-8	2.16E+03	pCi/L	1.9E+02	2.3E+02		2.98E+02	100.0	906.0_H3_LSC	5.00E-03	L	06/16/2007 16:00	I
7129618	BETA	12587-47-2	2.49E+02	pCi/L	8.9E+00	3.5E+01		5.16E+00	100.0	9310_ALPHABETA	7.54E-02	L	06/18/2007 18:23	I
7129612	TC-99	14133-76-7	8.66E+02	pCi/L	1.8E+01	5.7E+01		1.14E+01	100.0	TC99_SEP_LSC	1.268E-01	L	06/19/2007 10:39	I
7129616	Uranium	7440-61-1	3.03E+00	ug/L	3.1E-01	3.1E-01		8.19E-02		UTOT_KPA	2.56E-02	ML	06/19/2007 14:44	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%*:	Distilled Volume	Sample On Date:	Collection Date:
9JWEPC10	B1N4K5		MW6-SBB-A1	W07-005	W05172					05/04/2007 08:58

Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7129620	H-3	10028-17-8	1.36E+04	pCi/L	3.9E+02	6.6E+02		2.96E+02	100.0	906.0_H3_LSC	5.00E-03	L	06/16/2007 17:21	I
7129612	TC-99	14133-76-7	1.52E+02	pCi/L	7.8E+00	1.4E+01		9.90E+00	100.0	TC99_SEP_LSC	1.268E-01	L	06/19/2007 10:39	I
7129616	Uranium	7440-61-1	5.76E+00	ug/L	6.9E-01	6.9E-01		8.35E-02		UTOT_KPA	2.51E-02	ML	06/19/2007 14:48	I

STL Richland

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.

rptFeadRadSummaryEdd v3.48

J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).

B Qual- Analyte was found in the associated laboratory blank above the MDC.

6/25/2007 8:43:24 AM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 35704 File Name: h:\Reportdb\edd\Fead\I\Rad\W05172.Edd, h:\Reportdb\edd\Fead\I\Rad\35704.Edd

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:				
9JWEPK10	B1N4K6		MW6-SBB-A1	W07-005	W05172					05/04/2007 08:58				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7129620	H-3	10028-17-8	1.35E+04	pCi/L	3.9E+02	6.6E+02		2.97E+02	100.0	906.0_H3_LSC	5.00E-03	L	06/16/2007 18:43	I
7129612	TC-99	14133-76-7	1.46E+02	pCi/L	7.8E+00	1.4E+01		1.02E+01	100.0	TC99_SEP_LSC	1.255E-01	L	06/19/2007 10:39	I
7129616	Uranium	7440-61-1	5.71E+00	ug/L	6.9E-01	6.9E-01		8.12E-02		UTOT_KPA	2.58E-02	ML	06/19/2007 14:52	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:				
9JWEPP10	B1N4R9		MW6-SBB-A1	W07-005	W05172					05/04/2007 09:56				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7129620	H-3	10028-17-8	1.12E+04	pCi/L	3.6E+02	5.7E+02		2.97E+02	100.0	906.0_H3_LSC	5.00E-03	L	06/17/2007 01:32	I
7129612	TC-99	14133-76-7	3.86E+02	pCi/L	1.2E+01	2.8E+01		1.01E+01	100.0	TC99_SEP_LSC	1.271E-01	L	06/19/2007 10:39	I
7129616	Uranium	7440-61-1	5.64E+00	ug/L	5.8E-01	5.8E-01		8.09E-02		UTOT_KPA	2.59E-02	ML	06/19/2007 14:54	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:				
9JWEPQ10	B1N4T4		MW6-SBB-A1	W07-005	W05172					05/04/2007 10:36				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7129620	H-3	10028-17-8	1.16E+03	pCi/L	1.6E+02	1.9E+02		2.98E+02	100.0	906.0_H3_LSC	5.00E-03	L	06/17/2007 02:54	I
7129617	ALPHA	12587-46-1	-1.84E-01	pCi/L	5.0E-01	5.0E-01	U	1.69E+00	100.0	9310_ALPHABETA	1.113E-01	L	06/18/2007 18:24	I
7129618	BETA	12587-47-2	8.71E+00	pCi/L	1.8E+00	2.2E+00		2.73E+00	100.0	9310_ALPHABETA	1.996E-01	L	06/18/2007 17:36	I
7129612	TC-99	14133-76-7	1.17E+01	pCi/L	4.5E+00	6.5E+00		9.97E+00	100.0	TC99_SEP_LSC	1.254E-01	L	06/19/2007 10:39	I
7129616	Uranium	7440-61-1	2.97E+00	ug/L	3.0E-01	3.0E-01		7.76E-02		UTOT_KPA	2.70E-02	ML	06/19/2007 14:56	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:				
9JWEPW10	B1N4T6		MW6-SBB-A1	W07-005	W05172					05/04/2007 12:20				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7129620	H-3	10028-17-8	9.59E+03	pCi/L	3.4E+02	5.2E+02		2.98E+02	100.0	906.0_H3_LSC	5.00E-03	L	06/17/2007 04:16	I
7129616	Uranium	7440-61-1	3.54E+02	ug/L	4.2E+01	4.2E+01		7.94E-02		UTOT_KPA	2.64E-02	ML	06/19/2007 15:01	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:				
9JWEPW20	B1N4T6		MW6-SBB-A1	W07-005	W05172					05/04/2007 12:20				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7171388	TC-99	14133-76-7	2.70E+04	pCi/L	1.1E+02	1.6E+03		1.27E+01	100.0	TC99 ETVDSK_LS	1.259E-01	L	06/20/2007 23:05	I

STL Richland

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.

rptFeadRadSummaryEdd v3.48

J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).

B Qual- Analyte was found in the associated laboratory blank above the MDC.

6/25/2007 8:43:24 AM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 35704 File Name: h:\Reportdb\ledd\Fead\I\Rad\W05172.Edd, h:\Reportdb\ledd\Fead\I\Rad\35704.Edd

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:				
9JWEQK10	B1MRM5		MW6-SBB-A1	S07-004	W05172					05/04/2007 09:20				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7129620	H-3	10028-17-8	2.39E+04	pCi/L	5.1E+02	1.1E+03		2.99E+02	100.0	906.0_H3_LSC	5.00E-03	L	06/17/2007 05:38	I
7129613	I-129L	15046-84-1	-7.10E-02	pCi/L	1.5E-01	1.5E-01	U	2.54E-01	91.9	I129LL_SEP_LEPS	3.9071E+00	L	06/15/2007 14:35	I
Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:				
9JWFA810	B1N541		MW6-SBB-A1	W07-005	W05172					05/04/2007 12:20				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7129617	ALPHA	12587-46-1	1.77E+00	pCi/L	1.3E+00	1.3E+00		1.69E+00	100.0	9310_ALPHABETA	1.988E-01	L	06/18/2007 20:59	I
7129618	BETA	12587-47-2	7.26E+00	pCi/L	1.7E+00	2.2E+00		2.72E+00	100.0	9310_ALPHABETA	1.997E-01	L	06/18/2007 17:37	I
Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:				
9JWH5010	B1N3Y1		MW6-SBB-A1	S07-005	W05172					05/07/2007 09:36				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7129620	H-3	10028-17-8	7.49E+02	pCi/L	1.5E+02	1.7E+02		2.97E+02	100.0	906.0_H3_LSC	5.00E-03	L	06/17/2007 06:59	I
7129613	I-129L	15046-84-1	1.84E+00	pCi/L	3.9E-01	3.9E-01	U	6.84E-01	93.5	I129LL_SEP_LEPS	3.9985E+00	L	06/15/2007 14:39	I
7129616	Uranium	7440-61-1	3.15E+00	ug/L	3.2E-01	3.2E-01		8.19E-02		UTOT_KPA	2.56E-02	ML	06/19/2007 15:10	I
Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:				
9JWH5W10	B1N357		MW6-SBB-A1	I07-044	W05172					05/07/2007 10:59				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7129613	I-129L	15046-84-1	3.45E-01	pCi/L	1.2E-01	1.2E-01	U	2.80E-01	94.6	I129LL_SEP_LEPS	3.8842E+00	L	06/15/2007 14:38	I
Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/ Solids%*:	Distilled Volume	Sample On Date:	Collection Date:				
9JWH5W20	B1N357		MW6-SBB-A1	I07-044	W05172					05/07/2007 10:59				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7171388	TC-99	14133-76-7	1.40E+02	pCi/L	9.4E+00	1.5E+01		1.27E+01	100.0	TC99_ETVDSK_LS	1.255E-01	L	06/21/2007 00:29	I

Monday, June 25, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\eddd\Fead\I\Rad\W05172.Edd, h:\Reportdb\eddd\Fead\I\Rad\35704.Edd

Lab Sample Id: JWL3K2AB

Sdg/Rept Nbr: W05172 35704

Collection Date: 05/07/2007 10:59

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BLK

Received Date: 05/07/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								BL	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7171388	TC-99	-5.14E+00	pCi/L	6.7E+00	U	1.28E+01	100.0		TC99_ETVDSK	1.25E-01	06/21/2007				D
BLK	14133-76-7			5.0E+00						L	01:52				

Monday, June 25, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\I\Rad\W05172.Edd, h:\Reportdb\edd\Fead\I\Rad\35704.Edd

Lab Sample Id: JWL3L1AB

Sdg/Rept Nbr: W05172 35704

Collection Date: 05/04/2007 11:30

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BLK

Received Date: 05/04/2007

SAF Nbr		Contract Nbr		Test User		Case Nbr		SAS Nbr		Suffix		Decant		Distilled Volume		File Id		FSuffix		RTyp	
		MW6-SBB-A19981																BN		H	
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ						
7129612	TC-99	2.75E+00	pCi/L	5.9E+00	U	9.92E+00	100.0		TC99_SEP_LS	1.256E-01	06/19/2007				D						
BLK	14133-76-7			4.2E+00						L	10:39										

Monday, June 25, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\I\Rad\W05172.Edd, h:\Reportdb\edd\Fead\I\Rad\35704.Edd

Lab Sample Id: JWL3M1AB

Sdg/Rept Nbr: W05172 35704

Collection Date: 05/03/2007 11:27

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BLK

Received Date: 05/03/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								BP	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7129613	I-129L	9.16E-02	pCi/L	1.3E-01	U	2.63E-01	93.0		I129LL_SEP_L	3.9985E+00	06/15/2007				D
BLK	15046-84-1			1.3E-01						L	16:29				

Monday, June 25, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\I\Rad\W05172.Edd, h:\Reportdb\edd\Fead\I\Rad\35704.Edd

Lab Sample Id: JWL3N1AB

Sdg/Rept Nbr: W05172 35704

Collection Date: 05/07/2007 09:36

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BLK

Received Date: 05/07/2007

SAF Nbr		Contract Nbr		Test User		Case Nbr		SAS Nbr		Suffix		Decant		Distilled Volume		File Id		FSuffix		RTyp	
		MW6-SBB-A19981																BR		H	
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ						
7129616	Uranium	1.06E-02	ug/L	1.7E-03	U	8.06E-02			UTOT_KPA	2.60E-02	06/19/2007				D						
BLK	7440-61-1			1.7E-03						ML	14:23										

Monday, June 25, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\I\Rad\W05172.Edd, h:\Reportdb\edd\Fead\I\Rad\35704.Edd

Lab Sample Id: JWL3P1AB

Sdg/Rept Nbr: W05172 35704

Collection Date: 05/04/2007 10:36

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BLK

Received Date: 05/04/2007

SAF Nbr		Contract Nbr		Test User		Case Nbr		SAS Nbr		Suffix		Decant		Distilled Volume		File Id		FSuffix		RTyp	
		MW6-SBB-A19981																BU		H	
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ						
7129617	ALPHA	-1.26E-01	pCi/L	1.8E-01	U	6.53E-01	100.0		9310_ALPHAB	1.985E-01	06/19/2007				D						
BLK	12587-46-1			1.8E-01						L	08:13										

Monday, June 25, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\I\Rad\W05172.Edd, h:\Reportdb\edd\Fead\I\Rad\35704.Edd

Lab Sample Id: JWL3Q1AB

Sdg/Rept Nbr: W05172 35704

Collection Date: 05/04/2007 11:23

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BLK

Received Date: 05/04/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								BW	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7129618	BETA	8.02E-01	pCi/L	9.3E-01	U	1.79E+00	100.0		9310_ALPHAB	2.011E-01	06/18/2007				D
BLK	12587-47-2			9.2E-01						L	18:23				

Monday, June 25, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\I\Rad\W05172.Edd, h:\Reportdb\edd\Fead\I\Rad\35704.Edd

Lab Sample Id: JWL3T1AB

Sdg/Rept Nbr: W05172 35704

Collection Date: 05/03/2007 12:13

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BLK

Received Date: 05/03/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RType					
	MW6-SBB-A19981								BY	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7129619 BLK	BE-7 13966-02-4	-2.34E+01	pCi/L	2.4E+01 2.4E+01	U	3.79E+01			GAMMALL_GS	1.997E+00 L	06/20/2007 22:30				D
7129619 BLK	CO-60 10198-40-0	3.95E-02	pCi/L	2.1E+00 2.1E+00	U	4.24E+00			GAMMALL_GS	1.997E+00 L	06/20/2007 22:30				D
7129619 BLK	CS-134 13967-70-9	-5.75E-03	pCi/L	1.8E+00 1.8E+00	U	3.50E+00			GAMMALL_GS	1.997E+00 L	06/20/2007 22:30				D
7129619 BLK	CS-137 10045-97-3	-2.27E-01	pCi/L	1.7E+00 1.7E+00	U	3.17E+00			GAMMALL_GS	1.997E+00 L	06/20/2007 22:30				D
7129619 BLK	EU-152 14683-23-9	-1.98E+00	pCi/L	5.4E+00 5.4E+00	U	9.19E+00			GAMMALL_GS	1.997E+00 L	06/20/2007 22:30				D
7129619 BLK	EU-154 15585-10-1	9.21E-01	pCi/L	6.2E+00 6.2E+00	U	1.26E+01			GAMMALL_GS	1.997E+00 L	06/20/2007 22:30				D
7129619 BLK	EU-155 14391-16-3	5.40E-01	pCi/L	3.5E+00 3.5E+00	U	6.38E+00			GAMMALL_GS	1.997E+00 L	06/20/2007 22:30				D
7129619 BLK	K-40 13966-00-2	-4.67E+00	pCi/L	3.1E+01 3.1E+01	U	6.59E+01			GAMMALL_GS	1.997E+00 L	06/20/2007 22:30				D
7129619 BLK	RU-106 13967-48-1	-6.23E+00	pCi/L	1.6E+01 1.6E+01	U	2.75E+01			GAMMALL_GS	1.997E+00 L	06/20/2007 22:30				D
7129619 BLK	SB-125 14234-35-6	8.41E-01	pCi/L	5.4E+00 5.4E+00	U	9.96E+00			GAMMALL_GS	1.997E+00 L	06/20/2007 22:30				D

Monday, June 25, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\ledd\Fead\I\Rad\W05172.Edd, h:\Reportdb\ledd\Fead\I\Rad\35704.Edd

Lab Sample Id: JWL3V1AB

Sdg/Rept Nbr: W05172 35704

Collection Date: 05/04/2007 08:58

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BLK

Received Date: 05/04/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								CA	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7129620	H-3	8.02E+00	pCi/L	1.3E+02	U	2.97E+02	100.0		906.0_H3_LSC	5.00E-03	06/16/2007				D
BLK	10028-17-8			1.2E+02						L	07:49				

Monday, June 25, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\I\Rad\W05172.Edd, h:\Reportdb\edd\Fead\I\Rad\35704.Edd

Lab Sample Id: JWL3V1DX

Sdg/Rept Nbr: W05172 35704

Collection Date: 05/04/2007 08:58

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BLK

Received Date: 05/04/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RType					
	MW6-SBB-A19981								CC	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7129620	H-3	4.51E+01	pCi/L	1.4E+02	U	2.99E+02	100.0		906.0_H3_LSC	5.00E-03	06/16/2007				D
BLK	10028-17-8			1.2E+02						L	22:49				

Monday, June 25, 2007

STL Richland QC Blank Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\ledd\Fead\I\Rad\W05172.Edd, h:\Reportdb\ledd\Fead\I\Rad\35704.Edd

Lab Sample Id: JWL3X1AB

Sdg/Rept Nbr: W05172 35704

Collection Date: 05/04/2007 12:07

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BLK

Received Date: 05/04/2007

SAF Nbr		Contract Nbr		Test User		Case Nbr		SAS Nbr		Suffix		Decant		Distilled Volume		File Id		FSuffix		RTyp	
		MW6-SBB-A19981																CE		H	
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ						
7129621	H-3	2.73E+00	pCi/L	8.2E+00	U	5.94E+00	100.0		TRITIUM_ELE	1.50E-01	06/14/2007				D						
BLK	10028-17-8			6.5E+00						L	23:36										

Monday, June 25, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\I\Rad\W05172.Edd, h:\Reportdb\edd\Fead\I\Rad\35704.Edd

Lab Sample Id: JWL3K2CS

Sdg/Rept Nbr: W05172 35704

Collection Date: 05/07/2007 10:59

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BS

Received Date: 05/07/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								BM	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7171388	TC-99	5.18E+02	pCi/L	3.8E+01		1.25E+01	100.0	5.30E+02	TC99_ETVDSK	1.277E-01	06/21/2007			70	D
BS	14133-76-7			1.6E+01				97.7		L	02:33			130	

Monday, June 25, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\ledd\Fead\VRad\W05172.Edd, h:\Reportdb\ledd\Fead\VRad\35704.Edd

Lab Sample Id: JWL3L1CS

Sdg/Rept Nbr: W05172 35704

Collection Date: 05/04/2007 11:30

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BS

Received Date: 05/04/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RType					
	MW6-SBB-A19981								BO	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7129612	TC-99	4.77E+02	pCi/L	3.4E+01		1.01E+01	100.0	5.39E+02	TC99_SEP_LS	1.25E-01	06/19/2007			70	D
BS	14133-76-7			1.3E+01				88.6		L	10:39			130	

Monday, June 25, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\I\Rad\W05172.Edd, h:\Reportdb\edd\Fead\I\Rad\35704.Edd

Lab Sample Id: JWL3M1CS

Sdg/Rept Nbr: W05172 35704

Collection Date: 05/03/2007 11:27

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BS

Received Date: 05/03/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								BQ	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7129613	I-129L	9.53E+00	pCi/L	1.2E+00		3.25E-01	94.4	9.90E+00	I129LL_SEP_L	3.9978E+00	06/15/2007			70	D
BS	15046-84-1			1.2E+00				96.2		L	16:32			130	

Monday, June 25, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\eddd\FeadI\Rad\W05172.Edd, h:\Reportdb\eddd\FeadI\Rad\35704.Edd

Lab Sample Id: JWL3N1CS

Sdg/Rept Nbr: W05172 35704

Collection Date: 05/07/2007 09:36

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BS

Received Date: 05/07/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								BS	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7129616	Uranium	3.57E+01	ug/L	4.2E+00		8.06E-02		3.43E+01	UTOT_KPA	2.60E-02	06/19/2007			70	D
BS	7440-61-1			4.2E+00				103.8		ML	14:27			130	

Monday, June 25, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\ledd\Fead\I\Rad\W05172.Edd, h:\Reportdb\ledd\Fead\I\Rad\35704.Edd

Lab Sample Id: JWL3N1DS

Sdg/Rept Nbr: W05172 35704

Collection Date: 05/07/2007 09:36

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BS

Received Date: 05/07/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								BT	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7129616	Uranium	3.46E+00	ug/L	3.5E-01		8.22E-02		3.58E+00	UTOT_KPA	2.55E-02	06/19/2007			70	D
BS	7440-61-1			3.5E-01				96.4		ML	14:29			130	

Monday, June 25, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\I\Rad\W05172.Edd, h:\Reportdb\edd\Fead\I\Rad\35704.Edd

Lab Sample Id: JWL3P1CS

Sdg/Rept Nbr: W05172 35704

Collection Date: 05/04/2007 10:36

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BS

Received Date: 05/04/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								BV	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7129617	ALPHA	1.99E+01	pCi/L	4.9E+00		4.93E-01	100.0	2.24E+01	9310_ALPHAB	2.008E-01	06/19/2007			70	D
BS	12587-46-1			2.1E+00				89.0		L	08:13			130	

Monday, June 25, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\I\Rad\W05172.Edd, h:\Reportdb\edd\Fead\I\Rad\35704.Edd

Lab Sample Id: JWL3Q1CS

Sdg/Rept Nbr: W05172 35704

Collection Date: 05/04/2007 11:23

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BS

Received Date: 05/04/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								BX	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7129618	BETA	2.20E+01	pCi/L	3.6E+00		1.89E+00	100.0	2.28E+01	9310_ALPHAB	1.992E-01	06/18/2007			70	D
BS	12587-47-2			1.8E+00				96.7		L	18:23			130	

Monday, June 25, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\eddd\Fead\I\Rad\W05172.Edd, h:\Reportdb\eddd\Fead\I\Rad\35704.Edd

Lab Sample Id: JWL3T1CS

Sdg/Rept Nbr: W05172 35704

Collection Date: 05/03/2007 12:13

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BS

Received Date: 05/03/2007

SAF Nbr		Contract Nbr		Test User	Case	Nbr	SAS Nbr	Suffix	Decant	Distilled Volume		File Id		FSuffix	RTyp
		MW6-SBB-A19981												BZ	H
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7129619 BS	CO-60 10198-40-0	4.04E+01	pCi/L	9.9E+00 9.9E+00		6.36E+00		3.84E+01 105.2	GAMMALL_GS	1.9999E+00 L	06/20/2007 22:14			70 130	D
7129619 BS	CS-137 10045-97-3	2.42E+01	pCi/L	7.0E+00 7.0E+00		5.70E+00		2.49E+01 97.1	GAMMALL_GS	1.9999E+00 L	06/20/2007 22:14			70 130	D
7129619 BS	EU-152 14683-23-9	7.54E+01	pCi/L	2.3E+01 2.3E+01		1.29E+01		7.66E+01 98.5	GAMMALL_GS	1.9999E+00 L	06/20/2007 22:14			70 130	D

Monday, June 25, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\I\Rad\W05172.Edd, h:\Reportdb\edd\Fead\I\Rad\35704.Edd

Lab Sample Id: JWL3V1CS

Sdg/Rept Nbr: W05172 35704

Collection Date: 05/04/2007 08:58

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BS

Received Date: 05/04/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								CB	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7129620	H-3	2.49E+03	pCi/L	2.4E+02		2.97E+02	100.0	2.72E+03	906.0_H3_LSC	5.00E-03	06/16/2007			70	D
BS	10028-17-8			2.0E+02				91.2		L	09:11			130	

Monday, June 25, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\I\Rad\W05172.Edd, h:\Reportdb\edd\Fead\I\Rad\35704.Edd

Lab Sample Id: JWL3V1EM

Sdg/Rept Nbr: W05172 35704

Collection Date: 05/04/2007 08:58

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BS

Received Date: 05/04/2007

SAF Nbr		Contract Nbr		Test User	Case Nbr		SAS Nbr	Suffix	Decant	Distilled Volume	File Id		FSuffix	RTyp	
		MW6-SBB-A19981											CD	H	
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7129620	H-3	2.62E+03	pCi/L	2.5E+02		3.00E+02	100.0	2.73E+03	906.0_H3_LSC	5.00E-03	06/17/2007			70	D
BS	10028-17-8			2.1E+02				96.1		L	00:11			130	

Monday, June 25, 2007

STL Richland QC Control Sample Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\I\Rad\W05172.Edd, h:\Reportdb\edd\Fead\I\Rad\35704.Edd

Lab Sample Id: JWL3X1CS

Sdg/Rept Nbr: W05172 35704

Collection Date: 05/04/2007 12:07

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BS

Received Date: 05/04/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								CF	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7129621	H-3	3.77E+02	pCi/L	6.7E+01		6.03E+00	100.0	4.54E+02	TRITIUM_ELE	1.5002E-01	06/15/2007			70	D
BS	10028-17-8			1.6E+01				83.0		L	00:54			130	

Monday, June 25, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\I\Rad\W05172.Edd, h:\Reportdb\edd\Fead\I\Rad\35704.Edd

Lab Sample Id: JWA5N1CR

Sdg/Rept Nbr: W05172 35704

Collection Date: 05/03/2007 11:27

Client Id: B1M6K6

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: DUP

Received Date: 05/03/2007

SAF Nbr		Contract Nbr		Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id		FSuffix	RTyp		
I07-027		MW6-SBB-A19981										AZ	H		
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7129613	I-129L	2.05E+00	pCi/L	5.0E-01		2.98E-01	94.6		I129LL_SEP_L	3.8841E+00	06/15/2007	1.7	0.1		D
DUP	15046-84-1	2.08E+00		5.0E-01						L	12:20	20.0	3		

Monday, June 25, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\I\Rad\W05172.Edd, h:\Reportdb\edd\Fead\I\Rad\35704.Edd

Lab Sample Id: JWCG11ER

Sdg/Rept Nbr: W05172 35704

Collection Date: 05/03/2007 12:13

Client Id: B1N4J6

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: DUP

Received Date: 05/03/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RType					
W07-005	MW6-SBB-A19981								BA	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7129619	BE-7	2.86E+01	pCi/L	4.8E+01	U	8.91E+01			GAMMALL_GS	1.9312E+00	06/20/2007	570.3	1.2		D
DUP	13966-02-4	-1.37E+01		4.8E+01						L	22:13	20.0	3		
7129619	CO-60	5.34E+01	pCi/L	1.1E+01		4.87E+00			GAMMALL_GS	1.9312E+00	06/20/2007	11.4	0.7		D
DUP	10198-40-0	4.76E+01		1.1E+01						L	22:13	20.0	3		
7129619	CS-134	1.29E+00	pCi/L	3.9E+00	U	7.33E+00			GAMMALL_GS	1.9312E+00	06/20/2007	120.7	0.3		D
DUP	13967-70-9	3.18E-01		3.9E+00						L	22:13	20.0	3		
7129619	CS-137	-3.99E-01	pCi/L	3.3E+00	U	5.88E+00			GAMMALL_GS	1.9312E+00	06/20/2007	756.2	0.5		D
DUP	10045-97-3	6.86E-01		3.3E+00						L	22:13	20.0	3		
7129619	EU-152	4.08E+00	pCi/L	9.0E+00	U	1.64E+01			GAMMALL_GS	1.9312E+00	06/20/2007	42.1	0.2		D
DUP	14683-23-9	2.66E+00		9.0E+00						L	22:13	20.0	3		
7129619	EU-154	2.60E+00	pCi/L	9.1E+00	U	1.81E+01			GAMMALL_GS	1.9312E+00	06/20/2007	234.8	0.4		D
DUP	15585-10-1	-2.08E-01		9.1E+00						L	22:13	20.0	3		
7129619	EU-155	3.09E-02	pCi/L	6.4E+00	U	1.12E+01			GAMMALL_GS	1.9312E+00	06/20/2007	0.0	0.6		D
DUP	14391-16-3	-2.59E+00		6.4E+00						L	22:13	20.0	3		
7129619	K-40	-2.46E+01	pCi/L	6.5E+01	U	1.44E+02			GAMMALL_GS	1.9312E+00	06/20/2007	0.0	0.8		D
DUP	13966-00-2	1.40E+01		6.5E+01						L	22:13	20.0	3		
7129619	RU-106	2.56E+01	pCi/L	3.1E+01	U	6.08E+01			GAMMALL_GS	1.9312E+00	06/20/2007	322.9	1.4		D
DUP	13967-48-1	-6.03E+00		3.1E+01						L	22:13	20.0	3		
7129619	SB-125	1.19E+00	pCi/L	9.2E+00	U	1.64E+01			GAMMALL_GS	1.9312E+00	06/20/2007	0.0	0.8		D
DUP	14234-35-6	-3.78E+00		9.2E+00						L	22:13	20.0	3		

Monday, June 25, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\I\Rad\W05172.Edd, h:\Reportdb\edd\Fead\I\Rad\35704.Edd

Lab Sample Id: JWEP11CR

Sdg/Rept Nbr: W05172 35704

Collection Date: 05/04/2007 12:07

Client Id: B1MF90

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: DUP

Received Date: 05/04/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
S07-003	MW6-SBB-A19981								BB	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7129621	H-3	1.23E+02	pCi/L	2.4E+01		5.99E+00	100.0		TRITIUM_ELE	1.50E-01	06/15/2007	5.8	0.4		D
DUP	10028-17-8	1.16E+02		9.9E+00						L	03:29	20.0	3		

Monday, June 25, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\I\Rad\W05172.Edd, h:\Reportdb\edd\Fead\I\Rad\35704.Edd

Lab Sample Id: JWEP51FR

Sdg/Rept Nbr: W05172

35704

Collection Date: 05/04/2007 10:36

Client Id: B1MDN5

Matrix: WATER

WATER

Sample On Date:

Moisture/Solids%*:

QC Type: DUP

Received Date: 05/04/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
S07-003	MW6-SBB-A19981								BD	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7129617	ALPHA	9.09E+00	pCi/L	3.6E+00		2.05E+00	100.0		9310_ALPHAB	2.018E-01	06/18/2007	1.8	0.1		D
DUP	12587-46-1	8.93E+00		2.9E+00						L	19:55	20.0	3		

Monday, June 25, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\I\Rad\W05172.Edd, h:\Reportdb\edd\Fead\I\Rad\35704.Edd

Lab Sample Id: JWEP61ER

Sdg/Rept Nbr: W05172 35704

Collection Date: 05/04/2007 11:23

Client Id: B1MDN7

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: DUP

Received Date: 05/04/2007

SAF Nbr		Contract Nbr		Test User	Case Nbr		SAS Nbr	Suffix	Decant	Distilled Volume		File Id		FSuffix	RTyp
S07-003		MW6-SBB-A19981												BE	H
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7129618	BETA	1.70E+01	pCi/L	3.5E+00		2.96E+00	100.0		9310_ALPHAB	1.861E-01	06/18/2007	.1	0.		D
DUP	12587-47-2	1.70E+01		2.4E+00						L	17:37	20.0	3		

Monday, June 25, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\I\Rad\W05172.Edd, h:\Reportdb\edd\Fead\I\Rad\35704.Edd

Lab Sample Id: JWEPC1GR

Sdg/Rept Nbr: W05172

35704

Collection Date: 05/04/2007 11:30

Client Id: B1N4K1

Matrix: WATER

WATER

Sample On Date:

Moisture/Solids%*:

QC Type: DUP

Received Date: 05/04/2007

SAF Nbr		Contract Nbr		Test User		Case Nbr		SAS Nbr		Suffix		Decant		Distilled Volume		File Id		FSuffix		RTyp	
W07-005		MW6-SBB-A19981																BF		H	
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ						
7129612	TC-99	8.38E+02	pCi/L	5.5E+01		1.05E+01	100.0		TC99_SEP_LS	1.25E-01	06/19/2007	3.3	0.7		D						
DUP	14133-76-7	8.66E+02		1.7E+01						L	10:39	20.0	3								

Monday, June 25, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\IVRad\W05172.Edd, h:\Reportdb\edd\Fead\IVRad\35704.Edd

Lab Sample Id: JWEPK1ER

Sdg/Rept Nbr: W05172

35704

Collection Date: 05/04/2007 08:58

Client Id: B1N4K6

Matrix: WATER

WATER

Sample On Date:

Moisture/Solids%*:

QC Type: DUP

Received Date: 05/04/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
W07-005	MW6-SBB-A19981								BH	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7129620	H-3	1.33E+04	pCi/L	6.5E+02		2.96E+02	100.0		906.0_H3_LSC	5.00E-03	06/16/2007	2.0	0.6		D
DUP	10028-17-8	1.35E+04		3.9E+02						L	20:05	20.0	3		

Monday, June 25, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\I\Rad\W05172.Edd, h:\Reportdb\edd\Fead\I\Rad\35704.Edd

Lab Sample Id: JWH501ER

Sdg/Rept Nbr: W05172 35704

Collection Date: 05/07/2007 09:36

Client Id: B1N3Y1

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: DUP

Received Date: 05/07/2007

SAF Nbr		Contract Nbr		Test User		Case Nbr		SAS Nbr		Suffix		Decant		Distilled Volume		File Id		FSuffix		RTyp	
S07-005		MW6-SBB-A19981																BJ		H	
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ						
7129616	Uranium	3.21E+00	ug/L	3.3E-01		8.35E-02			UTOT_KPA	2.51E-02	06/19/2007	2.0	0.3		D						
DUP	7440-61-1	3.15E+00		3.3E-01						ML	15:11	20.0	3								

Monday, June 25, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\IV\Rad\W05172.Edd, h:\Reportdb\edd\Fead\IV\Rad\35704.Edd

Lab Sample Id: JWH5W2DR

Sdg/Rept Nbr: W05172 35704

Collection Date: 05/07/2007 10:59

Client Id: B1N357

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: DUP

Received Date: 05/07/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
I07-044	MW6-SBB-A19981								BK	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7171388	TC-99	1.48E+02	pCi/L	1.6E+01		1.26E+01	100.0		TC99_ETVDSK	1.264E-01	06/21/2007	5.8	0.8		D
DUP	14133-76-7	1.40E+02		9.5E+00						L	01:10	20.0	3		

Monday, June 25, 2007

STL Richland Qc Matrix Spike Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\FeadIV\Rad\W05172.Edd, h:\Reportdb\edd\FeadIV\Rad\35704.Edd

Lab Sample Id: JWEP51EW

Sdg/Rept Nbr: W05172

35704

Collection Date: 05/04/2007 10:36

Client Id: B1MDN5

Matrix: WATER

WATER

Sample On Date:

Moisture/Solids%*:

QC Type: MS

Received Date: 05/04/2007

SAF Nbr		Contract Nbr		Test User		Case Nbr		SAS Nbr		Suffix		Decant		Distilled Volume		File Id		FSuffix		RTyp	
S07-003		MW6-SBB-A19981																BC		H	
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ						
7129616	Uranium	3.72E+01	ug/L	7.0E+00		8.19E-02		3.52E+01	UTOT_KPA	2.56E-02	06/19/2007			60	D						
MS	7440-61-1			7.0E+00				105.8		ML	15:04			140							

Monday, June 25, 2007

STL Richland Qc Matrix Spike Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\FeadIV\Rad\W05172.Edd, h:\Reportdb\edd\FeadIV\Rad\35704.Edd

Lab Sample Id: JWEPG1EW

Sdg/Rept Nbr: W05172

35704

Collection Date: 05/04/2007 08:58

Client Id: B1N4K5

Matrix: WATER

WATER

Sample On Date:

Moisture/Solids%*:

QC Type: MS

Received Date: 05/04/2007

SAF Nbr		Contract Nbr		Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp			
W07-005		MW6-SBB-A19981									BG	H			
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7129612	TC-99	3.28E+03	pCi/L	2.1E+02		1.00E+01	100.0	3.66E+03	TC99_SEP_LS	1.245E-01	06/19/2007			60	D
MS	14133-76-7			3.2E+01				89.7		L	10:39			140	

Monday, June 25, 2007

STL Richland Qc Matrix Spike Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\I\Rad\W05172.Edd, h:\Reportdb\edd\Fead\I\Rad\35704.Edd

Lab Sample Id: JWEPW2FW

Sdg/Rept Nbr: W05172 35704

Collection Date: 05/04/2007 12:20

Client Id: B1N4T6

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: MS

Received Date: 05/04/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
W07-005	MW6-SBB-A19981								BI	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7171388	TC-99	4.31E+03	pCi/L	2.5E+03		1.27E+01	100.0	3.62E+03	TC99_ETVDSK	1.257E-01	06/20/2007			60	D
MS	14133-76-7			1.2E+02				119.3		L	23:47			140	

Lot No., Due Date: J7E040306,J7E070109,J7E070107; 06/21/2007
Client, Site: 384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test: 7129617; RALPHA-A Alpha by GPC-Am
SDG, Matrix: W05172; WATER

8.0 Correction Calculation Protocol Used. OK	Yes	No	N/A
8.01 The Appropriate Methods Were Used To Analyze the Samples OK	Yes	No	N/A
8.02 Final Results Are in the Appropriate Activity Units OK	Yes	No	N/A
8.03 Batch Contains the Required QC Appropriate for the Method OK	Yes	No	N/A
8.04 The Correct Tracer and QC Vials Where Used in the Samples OK	Yes	No	N/A
8.05 Sample was Appropriately Traced Before or After Fractionating the Sample OK	Yes	No	N/A
8.06 At Least the Minimum Sample Volume Was Used Analysis Volume => JWEPQ1AC 111.30<200.00 Q:VB	Yes	No	N/A
8.07 The Correct Count Geometry was Used. OK	Yes	No	N/A
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	Yes	No	N/A
8.09 Method Blank is within Control Limits. OK	Yes	No	N/A
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. No Matrix Blanks (MBIs) found in Batch!	Yes	No	N/A
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	Yes	No	N/A
8.13 QAS Specified Duplicate Equation Value within Control Limits. OK (RPD)	Yes	No	N/A
8.14 LCS within Control Limits. OK	Yes	No	N/A
8.15 MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!	Yes	No	N/A
8.16 MS within Control Limits. No Matrix Spike Samples (MS) found in Batch!	Yes	No	N/A
8.17 Tracer within Control Limits. OK	Yes	No	N/A
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) OK	Yes	No	N/A
8.19 Sample Specific MDC <= CRDL. OK	Yes	No	N/A
8.2 Comments:			
8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!	Yes	No	N/A
8.22 Result < Mdc, Activity Not Detected, U Flag. Batch Positive Result => JWA581AC ALPHA 2.7E+00 L:1.7E+00 JWEP51AA ALPHA 8.9E+00 L:2.2E+00 JWEP61AA ALPHA 2.1E+00 L:1.9E+00 JWFA81AA ALPHA 1.8E+00 L:1.7E+00	Yes	No	N/A
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => ALPHA OK; No Callin Level Found => ALPHA	Yes	No	N/A
8.24 Result + 3s >=0, Not Too Negative. OK	Yes	No	N/A

8.25 Counting Spectrum are within FWHM Limits. No FWHM found in Batch Data!	Yes	No	N/A <input checked="" type="checkbox"/>
8.26 Instruments have Current Calibrations.	Yes	No	N/A
8.27 Correct Count Library Used. No Count Library found in Batch Data!	Yes	No	N/A <input checked="" type="checkbox"/>
8.28 Instrument Background within Limits at Time of Counting. (Not Applicable to this version. To be developed in later version)	Yes	No	N/A
8.29 Instrument Check Source within Limits at the Time of Counting. (Not Applicable to this version. To be developed in later version)	Yes	No	N/A
8.3 Comments:			
8.31 Results Blank Subtracted as Appropriate. OK	Yes <input checked="" type="checkbox"/>	No	N/A

First Level Review *Jph North* Date 6-19-7



STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number:

7129617
W05172

Review Item	Yes (✓)	No (✓)	N/A (✓)
A. Sample Analysis			
1. Are the sample yields within acceptance criteria?	✓		
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	✓		
3. Are the correct isotopes reported?	✓		
B. QC Samples			
1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	✓		
2. Does the blank result meet the Contract criteria?	✓		
3. Is the blank result < the Contract Detection Limit?	✓		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			✓
5. Is the LCS recovery with contract acceptance criteria?	✓		
7. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
8. Do the MS/MSD results and yields meet acceptance criteria?			✓
9. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other			
1. Are all Nonconformances included and noted?			✓
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response:

Second Level Review:

Sheryl A. Adams

Date: 6-20-07

Lot No., Due Date: J7E040306,J7E070109,J7E070107; 06/21/2007
Client, Site: 384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test: 7129618; RBETA-SR Beta by GPC-Sr/Y
SDG, Matrix: W05172; WATER

8.0	Correction Calculation Protocol Used. OK	Yes	No	N/A
8.01	The Appropriate Methods Were Used To Analyze the Samples OK	Yes	No	N/A
8.02	Final Results Are in the Appropriate Activity Units OK	Yes	No	N/A
8.03	Batch Contains the Required QC Appropriate for the Method OK	Yes	No	N/A
8.04	The Correct Tracer and QC Vials Where Used in the Samples OK	Yes	No	N/A
8.05	Sample was Appropriately Traced Before or After Fractionating the Sample OK	Yes	No	N/A
8.06	At Least the Minimum Sample Volume Was Used Analysis Volume => JWEPC1AC 75.40<200.00 JWEP61AC 184.90<200.00 Q:VB	Yes	No	N/A
8.07	The Correct Count Geometry was Used. OK	Yes	No	N/A
8.08	The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	Yes	No	N/A
8.09	Method Blank is within Control Limits. OK	Yes	No	N/A
8.1	Comments:			
8.11	Matrix Blank is within Control Limits. No Matrix Blanks (MBIs) found in Batch!	Yes	No	N/A
8.12	Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	Yes	No	N/A
8.13	QAS Specified Duplicate Equation Value within Control Limits. OK (RPD)	Yes	No	N/A
8.14	LCS within Control Limits. OK	Yes	No	N/A
8.15	MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!	Yes	No	N/A
8.16	MS within Control Limits. No Matrix Spike Samples (MS) found in Batch!	Yes	No	N/A
8.17	Tracer within Control Limits. OK	Yes	No	N/A
8.18	Samples are above Minimum Tracer Yield (No Failed Samples) OK	Yes	No	N/A
8.19	Sample Specific MDC <= CRDL. MDC/MDA > CRDL => JWEPC1AC BETA 5.2E+00>4.0E+00 Q:C1	Yes	No	N/A
8.2	Comments:			
8.21	Result < Lc, Activity Not Detected, U Flag. No Limit Specified!	Yes	No	N/A
8.22	Result < Mdc, Activity Not Detected, U Flag. Batch Positive Result => JWA581AD BETA 7.1E+00 L:2.8E+00 JWEPC1AC BETA 2.5E+02 L:5.2E+00 JWEPQ1AD BETA 8.7E+00 L:2.7E+00 JWEP51AC BETA 1.9E+01 L:2.9E+00 JWEP61AC BETA 1.7E+01 L:3.1E+00 JWFA81AC BETA 7.3E+00 L:2.7E+00	Yes	No	N/A
8.23	Result <= Action Level, when Defined. OK; No Action Level Found => BETA OK; No Callin Level Found => BETA	Yes	No	N/A

- 8.24 Result + 3s ≥ 0 , Not Too Negative.
OK ☒ Yes ☐ No ☐ N/A
- 8.25 Counting Spectrum are within FWHM Limits.
No FWHM found in Batch Data! ☒ Yes ☐ No ☐ N/A
- 8.26 Instruments have Current Calibrations. ☒ Yes ☐ No ☐ N/A
- 8.27 Correct Count Library Used.
No Count Library found in Batch Data! ☒ Yes ☐ No ☐ N/A
- 8.28 Instrument Background within Limits at Time of Counting. (Not Applicable to this version. To be developed in later versions) ☒ Yes ☐ No ☐ N/A
- 8.29 Instrument Check Source within Limits at the Time of Counting. (Not Applicable to this version. To be developed in later versions) ☒ Yes ☐ No ☐ N/A
- 8.3 Comments: NCM-10-10153
- 8.31 Results Blank Subtracted as Appropriate.
OK ☒ Yes ☐ No ☐ N/A

First Level Review

Frederick Antonson

Date

6/19/07



STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number:

7129618
W05172

Review Item	Yes (✓)	No (✓)	N/A (✓)
A. Sample Analysis			
1. Are the sample yields within acceptance criteria?		✓	
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	✓		
3. Are the correct isotopes reported?	✓		
B. QC Samples			
1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	✓		
2. Does the blank result meet the Contract criteria?	✓		
3. Is the blank result < the Contract Detection Limit?	✓		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			✓
5. Is the LCS recovery with contract acceptance criteria?	✓		
7. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
8. Do the MS/MSD results and yields meet acceptance criteria?			✓
9. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other			
1. Are all Nonconformances included and noted?	✓		
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response:

See NCR

Second Level Review:

Sheryl A. Adams

Date:

6-19-07

Clouseau Nonconformance Memo

STL

NCM #: **10-10153**

NCM Initiated By: Lisa Antonson

Date Opened: 06/19/2007

Date Closed:

Classification: **Anomaly**

Status: **GLREVIEW**

Production Area: Environmental - Prep

Tests: Beta by GPC-Sr/Y

Lot #'s (Sample #'s): J7E040306 (1), J7E070107
(1,5,7), J7E070109 (2,3,4),
J7E090000 (618),

QC Batches: 7129618,

Nonconformance: MDA not met

Subcategory: Sample size reduced due to high residue mass

Problem Description / Root Cause

<u>Name</u>	<u>Date</u>	<u>Description</u>
Lisa Antonson	06/19/2007	In this beta batch, sample JWEPC1AC doesn't meet CRDL. The result for this sample exceeds the MDA achieved. The sample had a reduced aliquot based on weight screens.

Corrective Action

<u>Name</u>	<u>Date</u>	<u>Corrective Action</u>
Lisa Antonson	06/19/2007	NA

Client Notification Summary

<u>Client</u>	<u>Project Manager</u>	<u>Notified</u>	<u>Response</u>	<u>How Notified</u>	<u>Note</u>
			<u>Response</u>		<u>Response Note</u>

Quality Assurance Verification

<u>Verified By</u>	<u>Due Date</u>	<u>Status</u>	<u>Notes</u>
			This section not yet completed by QA.

Approval History

<u>Date Approved</u>	<u>Approved By</u>	<u>Position</u>
----------------------	--------------------	-----------------

Lot No., Due Date: J7E040342, J7E070107; 06/21/2007
Client, Site: 384868; PGW 615 HANFORD HANFORD
QC Batch No., Method Test: 7129619; RGAMMA Gamma by GER
SDG, Matrix: W05172; WATER

1.0 COC

1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions? Yes No N/A

2.0 QC Batch

2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet? Yes No N/A

2.2 Are the QC appropriate for the analysis included in the batch? Yes No N/A

2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc? Yes No N/A

2.4 Does the Worksheets include a Tracer Vial label for each sample? Yes No N/A

3.0 QC & Samples

3.1 Is the blank results, yield, and MDA within contract limits? Yes No N/A

3.2 Is the LCS result, yield, and MDA within contract limits? Yes No N/A

3.3 Are the MS/MSD results, yields, and MDA within contract limits? Yes No N/A

3.4 Are the duplicate result, yields, and MDAs within contract limits? Yes No N/A

3.5 Are the sample yields and MDAs within contract limits? Yes No N/A

4.0 Raw Data

4.1 Were results calculated in the correct units? Yes No N/A

4.2 Were analysis volumes entered correctly? Yes No N/A

4.3 Were Yields entered correctly? Yes No N/A

4.4 Were spectra reviewed/meet contractual requirements? Yes No N/A

4.5 Were raw counts reviewed for anomalies? Yes No N/A

5.0 Other

5.1 Are all nonconformances included and noted? Yes No N/A

5.2 Are all required forms filled out? Yes No N/A

5.3 Was the correct methodology used? Yes No N/A

5.4 Was transcription checked? Yes No N/A

5.5 Were all calculations checked at a minimum frequency? Yes No N/A

5.6 Are worksheet entries complete and correct? Yes No N/A

6.0 Comments on any No response:

First Level Review



Date _____



STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number:

7129619

W05172

Review Item	Yes (✓)	No (✓)	N/A (✓)
A. Sample Analysis			
1. Are the sample yields within acceptance criteria?	✓		
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	✓		
3. Are the correct isotopes reported?	✓		
B. QC Samples			
1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	✓		
2. Does the blank result meet the Contract criteria?	✓		
3. Is the blank result < the Contract Detection Limit?	✓		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			✓
5. Is the LCS recovery with contract acceptance criteria?	✓		
7. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
8. Do the MS/MSD results and yields meet acceptance criteria?			✓
9. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other			
1. Are all Nonconformances included and noted?			✓
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response:

Second Level Review

Sheryl A. Adams

Date: 6-25-07

Lot No., Due Date: J7E040306,J7E040299,J7E070112,J7E080313,J7E080312; 06/21/2007
Client, Site: 384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test: 7129613; RGAMLEPS Gamma by LEPS
SDG, Matrix: W05172; WATER

1.0 COC

1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions? Yes No N/A

2.0 QC Batch

2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet? Yes No N/A

2.2 Are the QC appropriate for the analysis included in the batch? Yes No N/A

2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc? Yes No N/A

2.4 Does the Worksheets include a Tracer Vial label for each sample? Yes No N/A

3.0 QC & Samples

3.1 Is the blank results, yield, and MDA within contract limits? Yes No N/A

3.2 Is the LCS result, yield, and MDA within contract limits? Yes No N/A

3.3 Are the MS/MSD results, yields, and MDA within contract limits? Yes No N/A

3.4 Are the duplicate result, yields, and MDAs within contract limits? Yes No N/A

3.5 Are the sample yields and MDAs within contract limits? Yes No N/A

4.0 Raw Data

4.1 Were results calculated in the correct units? Yes No N/A

4.2 Were analysis volumes entered correctly? Yes No N/A

4.3 Were Yields entered correctly? Yes No N/A

4.4 Were spectra reviewed/meet contractual requirements? Yes No N/A

4.5 Were raw counts reviewed for anomalies? Yes No N/A

5.0 Other

5.1 Are all nonconformances included and noted? Yes No N/A

5.2 Are all required forms filled out? Yes No N/A

5.3 Was the correct methodology used? Yes No N/A

5.4 Was transcription checked? Yes No N/A

5.5 Were all calculations checked at a minimum frequency? Yes No N/A

5.6 Are worksheet entries complete and correct? Yes No N/A

6.0 Comments on any No response:

First Level Review

Date



STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number:

7129413
005172

Review Item	Yes (✓)	No (✓)	N/A (✓)
A. Sample Analysis			
1. Are the sample yields within acceptance criteria?	✓		
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	✓		
3. Are the correct isotopes reported?	✓		
B. QC Samples			
1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	✓		
2. Does the blank result meet the Contract criteria?	✓		
3. Is the blank result < the Contract Detection Limit?	✓		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			✓
5. Is the LCS recovery with contract acceptance criteria?	✓		
7. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
8. Do the MS/MSD results and yields meet acceptance criteria?			✓
9. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other			
1. Are all Nonconformances included and noted?			✓
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response:

Second Level Review:

Sheryl A. Adams

Date:

6-18-07

Lot No., Due Date: J7E040342,J7E070107,J7E080312; 06/21/2007

Client, Site: 384868; PGW 615HANFORD HANFORD

QC Batch No., Method Test: 7171388; RTC99 Tc-99 by LSC

SDG, Matrix: W05172; WATER

8.0	Correction Calculation Protocol Used. OK	Yes	No	N/A
8.01	The Appropriate Methods Were Used To Analyze the Samples OK	Yes	No	N/A
8.02	Final Results Are in the Appropriate Activity Units OK	Yes	No	N/A
8.03	Batch Contains the Required QC Appropriate for the Method OK	Yes	No	N/A
8.04	The Correct Tracer and QC Vials Where Used in the Samples Incorrect Tracer/Vial => JWEPW2AF TCSG<->TCSE Q:V9	Yes	No	N/A
8.05	Sample was Appropriately Traced Before or After Fractionating the Sample OK	Yes	No	N/A
8.06	At Least the Minimum Sample Volume Was Used OK	Yes	No	N/A
8.07	The Correct Count Geometry was Used. OK	Yes	No	N/A
8.08	The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	Yes	No	N/A
8.09	Method Blank is within Control Limits. OK	Yes	No	N/A
8.1	Comments:			
8.11	Matrix Blank is within Control Limits. No Matrix Blanks (MBIs) found in Batch!	Yes	No	N/A
8.12	Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	Yes	No	N/A
8.13	QAS Specified Duplicate Equation Value within Control Limits. OK (RPD)	Yes	No	N/A
8.14	LCS within Control Limits. OK	Yes	No	N/A
8.15	MLCS within Control Limits. No Matrix Spikes (MLCS) found in Batch!	Yes	No	N/A
8.16	MS within Control Limits. OK	Yes	No	N/A
8.17	Tracer within Control Limits. No Tracers found in Batch!	Yes	No	N/A
8.18	Samples are above Minimum Tracer Yield (No Failed Samples) No Tracers found in Batch!	Yes	No	N/A
8.19	Sample Specific MDC <= CRDL. OK	Yes	No	N/A
8.2	Comments:			
8.21	Result < Lc, Activity Not Detected, U Flag. No Limit Specified!	Yes	No	N/A
8.22	Result < Mdc, Activity Not Detected, U Flag. No Positive Results OK Calc_IDL Not Calculated	Yes	No	N/A
8.23	Result <= Action Level, when Defined. OK; No Action Level Found => TC-99 OK; No Callin Level Found => TC-99	Yes	No	N/A
8.24	Result + 3s >=0, Not Too Negative. OK	Yes	No	N/A
8.25	Counting Spectrum are within FWHM Limits. No FWHM found in Batch Data!	Yes	No	N/A

8.26 Instruments have Current Calibrations.	Yes	No	N/A
8.27 Correct Count Library Used. No Count Library found in Batch Data!	Yes	No	N/A
8.28 Instrument Background within Limits at Time of Counting. (Not Applicable to this version. To be developed in later version)	Yes	No	N/A
8.29 Instrument Check Source within Limits at the Time of Counting. (Not Applicable to this version. To be developed in later version)	Yes	No	N/A
8.3 Comments: NEM 10-10200			
8.31 Results Blank Subtracted as Appropriate. OK	Yes	No	N/A

First Level Review Lisa Antonson Date 6/20/07



STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number:

7171388
W05172

Review Item	Yes (✓)	No (✓)	N/A (✓)
A. Sample Analysis			
1. Are the sample yields within acceptance criteria?	✓		
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	✓		
3. Are the correct isotopes reported?	✓		
B. QC Samples			
1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	✓		
2. Does the blank result meet the Contract criteria?	✓		
3. Is the blank result < the Contract Detection Limit?	✓		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			✓
5. Is the LCS recovery with contract acceptance criteria?	✓		
7. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
8. Do the MS/MSD results and yields meet acceptance criteria?			✓
9. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other			
1. Are all Nonconformances included and noted?	✓		
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response:

See NCM

Second Level Review:

Sherryll A. Adams

Date: 6-22-07

Clouseau Nonconformance Memo

STL

NCM #: **10-10200**

NCM Initiated By: Lisa Antonson

Date Opened: 06/22/2007

Date Closed:

Classification: **Anomaly**

Status: **GLREVIEW**

Production Area: Environmental - Prep

Tests: Tc-99 by LSC

Lot #'s (Sample #'s): J7E040342 (1,2,4),
J7E070107 (6), J7E080312
(1), J7E090000 (611),

QC Batches: 7171388,

Nonconformance: Other (describe in detail)

Subcategory: Other (explanation required)

Problem Description / Root Cause

<u>Name</u>	<u>Date</u>	<u>Description</u>
Lisa Antonson	06/22/2007	In the original count of this Tc99 batch the TSIE was out and the batch could not be calculated. It was shaken, rewiped and recounted. The TSIE was still out. After consideration by the QA Manager and Technical Director, the decision was made to extend the upper limits of the curve to 480. The samples were able to be calculated and are acceptable.

Corrective Action

<u>Name</u>	<u>Date</u>	<u>Corrective Action</u>
Lisa Antonson	06/22/2007	Upper limit was extended to 480.

Client Notification Summary

<u>Client</u>	<u>Project Manager</u>	<u>Notified</u>	<u>Response</u>	<u>How Notified</u>	<u>Note</u>
		<u>Response</u>	<u>Response Note</u>		

Quality Assurance Verification

<u>Verified By</u>	<u>Due Date</u>	<u>Status</u>	<u>Notes</u>
		This section not yet completed by QA.	

Approval History

<u>Date Approved</u>	<u>Approved By</u>	<u>Position</u>
----------------------	--------------------	-----------------

Lot No., Due Date: J7E040342, J7E070107; 06/21/2007
Client, Site: 384868; PGW 615 HANFORD HANFORD
QC Batch No., Method Test: 7129612; RTC99 Tc-99 by LSC
SDG, Matrix: W05172; WATER

1.0 COC

1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions? Yes No N/A
☒ ☐ ☐

2.0 QC Batch

2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet? Yes No N/A
☒ ☐ ☐

2.2 Are the QC appropriate for the analysis included in the batch? Yes No N/A
☒ ☐ ☐

2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc? Yes No N/A
☒ ☐ ☐

2.4 Does the Worksheets include a Tracer Vial label for each sample? Yes No N/A
☐ ☐ ☒

3.0 QC & Samples

3.1 Is the blank results, yield, and MDA within contract limits? Yes No N/A
☒ ☐ ☐

3.2 Is the LCS result, yield, and MDA within contract limits? Yes No N/A
☒ ☐ ☐

3.3 Are the MS/MSD results, yields, and MDA within contract limits? Yes No N/A
☒ ☐ ☐

3.4 Are the duplicate result, yields, and MDAs within contract limits? Yes No N/A
☒ ☐ ☐

3.5 Are the sample yields and MDAs within contract limits? Yes No N/A
☒ ☐ ☐

4.0 Raw Data

4.1 Were results calculated in the correct units? Yes No N/A
☒ ☐ ☐

4.2 Were analysis volumes entered correctly? Yes No N/A
☒ ☐ ☐

4.3 Were Yields entered correctly? Yes No N/A
☐ ☐ ☒

4.4 Were spectra reviewed/meet contractual requirements? Yes No N/A
☒ ☐ ☐

4.5 Were raw counts reviewed for anomalies? Yes No N/A
☒ ☐ ☐

5.0 Other

5.1 Are all nonconformances included and noted? Yes No N/A
☐ ☐ ☒

5.2 Are all required forms filled out? Yes No N/A
☒ ☐ ☐

5.3 Was the correct methodology used? Yes No N/A
☒ ☐ ☐

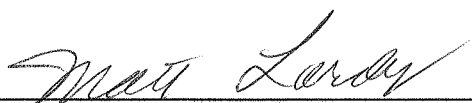
5.4 Was transcription checked? Yes No N/A
☒ ☐ ☐

5.5 Were all calculations checked at a minimum frequency? Yes No N/A
☒ ☐ ☐

5.6 Are worksheet entries complete and correct? Yes No N/A
☒ ☐ ☐

6.0 Comments on any No response:

First Level Review



Date

6-20-07



STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number:

712961Z
W051K

Review Item	Yes (✓)	No (✓)	N/A (✓)
A. Sample Analysis			
1. Are the sample yields within acceptance criteria?	✓		
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	✓		
3. Are the correct isotopes reported?	✓		
B. QC Samples			
1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	✓		
2. Does the blank result meet the Contract criteria?	✓		
3. Is the blank result < the Contract Detection Limit?	✓		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			✓
5. Is the LCS recovery with contract acceptance criteria?	✓		
7. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
8. Do the MS/MSD results and yields meet acceptance criteria?	✓		
9. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other			
1. Are all Nonconformances included and noted?			✓
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response:

Second Level Review:

Sheryl A. Adams

Date: 6-20-07

Lot No., Due Date: J7E040306,J7E040342,J7E070107,J7E070112,J7E080313; 06/21/2007
Client, Site: 384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test: 7129620; RTRITIUM H-3 by LSC
SDG, Matrix: W05172; WATER

	Yes	No	N/A
8.0 Correction Calculation Protocol Used. OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.01 The Appropriate Methods Were Used To Analyze the Samples OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.02 Final Results Are in the Appropriate Activity Units OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.03 Batch Contains the Required QC Appropriate for the Method OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.04 The Correct Tracer and QC Vials Where Used in the Samples OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.05 Sample was Appropriately Traced Before or After Fractionating the Sample OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.06 At Least the Minimum Sample Volume Was Used Analysis Volume => JWA581AA 5.00<10.00 JWCHW1AA 5.00<10.00 JWCJC1AA 5.00<10.00 JWCJM1AA 5.00<10.00 JWEPC1AA 5.00<10.00 JWEPG1AA 5.00<10.00 JWEPK1AA 5.00<10.00 JWEPP1AA 5.00<10.00 JWEPQ1AA 5.00<10.00 JWEPW1AA 5.00<10.00 JWEQK1AA 5.00<10.00 JWH501AA 5.00<10.00 Q:VB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.07 The Correct Count Geometry was Used. Count Geometry => JWL3V1AF SVP15/5<>SVP10/10 JWL3V1AG SVP15/5<>SVP10/10 JWL3V1AA SVP15/5<>SVP10/10 JWL3V1AC SVP15/5<>SVP10/10 JWA581AA SVP15/5<>SVP10/10 JWCHW1AA SVP15/5<>SVP10/10 JWCJC1AA SVP15/5<>SVP10/10 JWCJM1AA SVP15/5<>SVP10/10 JWEPC1AA SVP15/5<>SVP10/10 JWEPG1AA SVP15/5<>SVP10/10 JWEPK1AA SVP15/5<>SVP10/10 JWEPK1AE SVP15/5<>SVP10/10 JWL3V1AH SVP15/5<>SVP10/10 JWL3V1AD SVP15/5<>SVP10/10 JWL3V1AE SVP15/5<>SVP10/10 JWEPP1AA SVP15/5<>SVP10/10 JWEPQ1AA SVP15/5<>SVP10/10 JWEPW1AA SVP15/5<>SVP10/10 JWEQK1AA SVP15/5<>SVP10/10 JWH501AA SVP15/5<>SVP10/10 Q:VC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.08 The Sample was Counted for the Minimum Count Time or CRDL was Achieved. OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.09 Method Blank is within Control Limits. OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.1 Comments:			
8.11 Matrix Blank is within Control Limits. OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.12 Method Blank(s) < QAS Limit Value (No B Flag Necessary). OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.13 QAS Specified Duplicate Equation Value within Control Limits. OK (RPD)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.14 LCS within Control Limits. OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

OK AL 6/18/07

OK AL 6/18/07

8.15 MLCS within Control Limits. OK	Yes	No	N/A
8.16 MS within Control Limits. No Matrix Spike Samples (MS) found in Batch!	Yes	No	N/A
8.17 Tracer within Control Limits. No Tracers found in Batch!	Yes	No	N/A
8.18 Samples are above Minimum Tracer Yield (No Failed Samples) No Tracers found in Batch!	Yes	No	N/A
8.19 Sample Specific MDC <= CRDL. OK	Yes	No	N/A
8.2 Comments:			
8.21 Result < Lc, Activity Not Detected, U Flag. No Limit Specified!	Yes	No	N/A
8.22 Result < Mdc, Activity Not Detected, U Flag. No Positive Results OK Calc_IDL Not Calculated	Yes	No	N/A
8.23 Result <= Action Level, when Defined. OK; No Action Level Found => H-3 OK; No Callin Level Found => H-3	Yes	No	N/A
8.24 Result + 3s >=0, Not Too Negative. OK	Yes	No	N/A
8.25 Counting Spectrum are within FWHM Limits. No FWHM found in Batch Data!	Yes	No	N/A
8.26 Instruments have Current Calibrations.	Yes	No	N/A
8.27 Correct Count Library Used. No Count Library found in Batch Data!	Yes	No	N/A
8.28 Instrument Background within Limits at Time of Counting. (Not Applicable to this version. To be developed in later versions)	Yes	No	N/A
8.29 Instrument Check Source within Limits at the Time of Counting. (Not Applicable to this version. To be developed in later versions)	Yes	No	N/A
8.3 Comments:			
8.31 Results Blank Subtracted as Appropriate. OK	Yes	No	N/A

First Level Review

Angela Long

Date

6/18/07



STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number:

7129620
W05172

Review Item	Yes (✓)	No (✓)	N/A (✓)
A. Sample Analysis			
1. Are the sample yields within acceptance criteria?	✓		
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	✓		
3. Are the correct isotopes reported?	✓		
B. QC Samples			
1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	✓		
2. Does the blank result meet the Contract criteria?	✓		
3. Is the blank result < the Contract Detection Limit?	✓		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			✓
5. Is the LCS recovery with contract acceptance criteria?	✓		
7. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
8. Do the MS/MSD results and yields meet acceptance criteria?			✓
9. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other			
1. Are all Nonconformances included and noted?			✓
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response:

Second Level Review:

Sheryl A. Allen

Date:

6-19-07

Lot No., Due Date: J7E070109; 06/21/2007
Client, Site: 384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test: 7129621; RH3EE H3EE by LSC
SDG, Matrix: W05172; WATER

1.0 COC

1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions? Yes No N/A

2.0 QC Batch

2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet? Yes No N/A

2.2 Are the QC appropriate for the analysis included in the batch? Yes No N/A

2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc? Yes No N/A

2.4 Does the Worksheets include a Tracer Vial label for each sample? Yes No N/A

3.0 QC & Samples

3.1 Is the blank results, yield, and MDA within contract limits? Yes No N/A

3.2 Is the LCS result, yield, and MDA within contract limits? Yes No N/A

3.3 Are the MS/MSD results, yields, and MDA within contract limits? Yes No N/A

3.4 Are the duplicate result, yields, and MDAs within contract limits? Yes No N/A

3.5 Are the sample yields and MDAs within contract limits? Yes No N/A

4.0 Raw Data

4.1 Were results calculated in the correct units? Yes No N/A

4.2 Were analysis volumes entered correctly? Yes No N/A

4.3 Were Yields entered correctly? Yes No N/A

4.4 Were spectra reviewed/meet contractual requirements? Yes No N/A

4.5 Were raw counts reviewed for anomalies? Yes No N/A

5.0 Other

5.1 Are all nonconformances included and noted? Yes No N/A

5.2 Are all required forms filled out? Yes No N/A

5.3 Was the correct methodology used? Yes No N/A

5.4 Was transcription checked? Yes No N/A

5.5 Were all calculations checked at a minimum frequency? Yes No N/A

5.6 Are worksheet entries complete and correct? Yes No N/A

6.0 Comments on any No response:

First Level Review

Date



STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number:

71296 Z1

W05172

Review Item	Yes (✓)	No (✓)	N/A (✓)
A. Sample Analysis			
1. Are the sample yields within acceptance criteria?	✓		
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	✓		
3. Are the correct isotopes reported?	✓		
B. QC Samples			
1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	✓		
2. Does the blank result meet the Contract criteria?	✓		
3. Is the blank result < the Contract Detection Limit?	✓		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			✓
5. Is the LCS recovery with contract acceptance criteria?	✓		
7. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
8. Do the MS/MSD results and yields meet acceptance criteria?			✓
9. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other			
1. Are all Nonconformances included and noted?			✓
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response:

Second Level Review

Sheryl A. Allen

Date:

6-19-07

Lot No., Due Date: J7E040342,J7E070109,J7E070107,J7E080313; 06/21/2007
Client, Site: 384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test: 7129616; RUNAT UNat by KPA
SDG, Matrix: W05172; WATER

1.0 COC

1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions? Yes No N/A

☒**2.0 QC Batch**

2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet? Yes No N/A

☒

2.2 Are the QC appropriate for the analysis included in the batch? Yes No N/A

☒

2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc? Yes No N/A

☒

2.4 Does the Worksheets include a Tracer Vial label for each sample? Yes No N/A

☒**3.0 QC & Samples**

3.1 Is the blank results, yield, and MDA within contract limits? Yes No N/A

☒

3.2 Is the LCS result, yield, and MDA within contract limits? Yes No N/A

☒

3.3 Are the MS/MSD results, yields, and MDA within contract limits? Yes No N/A

☒

3.4 Are the duplicate result, yields, and MDAs within contract limits? Yes No N/A

☒

3.5 Are the sample yields and MDAs within contract limits? Yes No N/A

☒**4.0 Raw Data**

4.1 Were results calculated in the correct units? Yes No N/A

☒

4.2 Were analysis volumes entered correctly? Yes No N/A

☒

4.3 Were Yields entered correctly? Yes No N/A

☒

4.4 Were spectra reviewed/meet contractual requirements? Yes No N/A

☒

4.5 Were raw counts reviewed for anomalies? Yes No N/A

☒**5.0 Other**

5.1 Are all nonconformances included and noted? Yes No N/A

☒

5.2 Are all required forms filled out? Yes No N/A

☒

5.3 Was the correct methodology used? Yes No N/A

☒

5.4 Was transcription checked? Yes No N/A

☒

5.5 Were all calculations checked at a minimum frequency? Yes No N/A

☒

5.6 Are worksheet entries complete and correct? Yes No N/A

☒

6.0 Comments on any No response:

First Level Review



Date 6-20-7



STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number:

7129616

W05172

Review Item	Yes (✓)	No (✓)	N/A (✓)
A. Sample Analysis			
1. Are the sample yields within acceptance criteria?	✓		
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	✓		
3. Are the correct isotopes reported?	✓		
B. QC Samples			
1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	✓		
2. Does the blank result meet the Contract criteria?	✓		
3. Is the blank result < the Contract Detection Limit?	✓		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			✓
5. Is the LCS recovery with contract acceptance criteria?	✓		
7. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
8. Do the MS/MSD results and yields meet acceptance criteria?	✓		
9. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other			
1. Are all Nonconformances included and noted?			✓
2. Are all required forms filled out?	✓		
3. Was the correct methodology used?	✓		
4. Was transcription checked?	✓		
5. Were all calculations checked at a minimum frequency?	✓		
6. Were units checked?	✓		

Comments on any "No" response:

Second Level Review:

Sheryl A. Adams

Date: 6-20-07

[illegible]

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Collection Point For Hanford E.M. HALL	Contact/Requester Dot Stewart	Telephone No. 509-376-5056	MSIN	FAX
SAF No. 107-027	Sampling Origin Hanford Site	Purchase Order/Charge Code		
Project Title 2ZP1-LOL FEBRUARY 2007	HNF - N - 506 - 6	Ice Chest No. ERC	Temp.	
Shipped To (Lab) Sewern Trent Incorporated, Richland	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No.		
Protocol CERCLA	Priority: 45 Days	Offsite Property No.		
POSSIBLE SAMPLE HAZARDS/REMARKS ** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)		SPECIAL INSTRUCTIONS All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days. WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.		
		Hold Time Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		

POSSIBLE SAMPLE HAZARDS/REMARKS

** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)

Total Activity Exemption: Yes ☒ No ☐

All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days.
WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.

[illegible]

Relinquished By	Print Fluor Hanford E M HALL	Sign MAY 03 2007	Date/Time 1530	Received By	Print ERIC Darby	Sign Ea Darby	Date/Time MAY 03 2007 1530	Matrix *	
Relinquished By			Date/Time	Received By			Date/Time	S = Soil	DS = Drum Solid
								SE = Sediment	DL = Drum Liquid
								SO = Solid	T = Tissue
								SL = Sludge	WI = Wine
								W = Water	L = Liquid
								O = Oil	V = Vegetation
								A = Air	X = Other
Relinquished By			Date/Time	Received By			Date/Time		
Relinquished By			Date/Time	Received By			Date/Time		
Relinquished By			Date/Time	Received By			Date/Time		
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)						Disposed By	Date/Time	



STL

Sample Check-in List

Date/Time Received: 5/3/07 1530

Client: P6W SDG #: W05172 NA ☐ SAF #: I07-027 NA ☐

Work Order Number: J7E040299 Chain of Custody # I07-027-8

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA ☐ Yes ☒ No ☐
2. Custody Seals dated and signed? NA ☐ Yes ☒ No ☐
3. Chain of Custody record present? Yes ☒ No ☐
4. Cooler temperature: _____ NA ☒ 5. Vermiculite/packing materials is NA ☒ Wet ☐ Dry ☐
6. Number of samples in shipping container: _____
7. Sample holding times exceeded? NA ☒ Yes ☐ No ☐
8. Samples have:
_____ tape _____ hazard labels
_____ custody seals _____ appropriate samples labels
9. Samples are:
_____ in good condition _____ leaking
_____ broken _____ have air bubbles
(Only for samples requiring head space)
10. Sample pH taken? NA ☐ pH<2 ☐ pH>2 ☒ pH>9 ☐
11. Sample Location, Sample Collector Listed? * Yes ☒ No ☐
*For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes ☐ No ☒
13. Description of anomalies (include sample numbers): _____

Sample Custodian: Erin Dwyer Date: 5/3/07 1530

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

[] No action necessary; process as is.

Project Manager _____ Date _____

[illegible]

PNNL J7E040342 W05172 Due 06-18-07		<h2 style="margin:0;">CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST</h2>		C.O.C. # <h1 style="margin:0;">W07-005-62</h1>	
				Page <u>1</u> of <u>1</u>	
Collector Fluor Hanford R. T. SICKLE		Contact/Requester Dot Stewart		Telephone No. MSIN FAX 509-376-5056	
SAF No. W07-005		Sampling Origin Hanford Site		Purchase Order/Charge Code	
Project Title RCRA, MAY 2007		HNF-N-506-B		Ice Chest No. SKINS Temp.	
Shipped To (Lab) Severn Trent Incorporated, Richland		Method of Shipment Govt. Vehicle		Bill of Lading/Air Bill No.	
Protocol RCRA		Priority: 45 Days		Offsite Property No.	
POSSIBLE SAMPLE HAZARDS/REMARKS ** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)			SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days. WSCF: Batch all GW samples submitted into one SDG, daily closure.		

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1N4L5		W	5-3-07	0955	1x20-mL P	Activity Scan	None
B1N4L5		W	↓	↓	1x4000-mL G/P	GAMMALL_GS: List-1 (9)	HNO3 to pH <2
B1N4L5		W			1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1N4L5		W			1x500-mL P	TC99_ETVDSK_LSC: Tc-99 (1)	HCl to pH <2
B1N4L5		W			1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
						JWCHW	

Relinquished By Fluor Hanford R. T. SICKLE	Date/Time 1530 MAY 03 2007	Received By ERIC DORR Eric Dorry	Date/Time 1530 MAY 03 2007	Matrix * S = Soil DS = Drum Solid SE = Sediment DL = Drum Liquid SO = Solid T = Tissue SL = Sludge WI = Wine W = Water L = Liquid O = Oil V = Vegetation A = Air X = Other
Relinquished By	Date/Time	Received By	Date/Time	
Relinquished By	Date/Time	Received By	Date/Time	
Relinquished By	Date/Time	Received By	Date/Time	
FINAL SAMPLE DISPOSITION		Disposal Method (e.g., Return to customer, per lab procedure, used in process) Disposed By Date/Time		

PNNL <i>J7E040342</i> <i>W05172</i> <i>Due 06-18-07</i>		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		C.O.C. # W07-005-70
				Page <u>1</u> of <u>1</u>
Collector Fluor Hanford	Contact/Requester Dot Stewart	Telephone No. 509-376-5056	MSIN 	FAX
SAF No. W07-005	Sampling Origin Hanford Site	Purchase Order/Charge Code 		
Project Title RCRA, MAY 2007	Method of Shipment <i>HMF-N-506-8</i>	Ice Chest No. <i>341MS</i>	Temp. 	
Shipped To (Lab) Severn Trent Incorporated, Richland	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No. 		
Protocol RCRA	Priority: 45 Days	Offsite Property No. 		
POSSIBLE SAMPLE HAZARDS/REMARKS ** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993) .		SPECIAL INSTRUCTIONS All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days. WSCF: Batch all GW samples submitted into one SDG, daily closure.		
		Hold Time 		
		Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		

[illegible]

Relinquished By Fluor Hanford R. T. SICKLE	Print <i>[Signature]</i> Sign	Date/Time MAY 03 2007	Received By ERIC DORLEY <i>[Signature]</i>	Print ERIC DORLEY Sign	Date/Time MAY 03 2007	Matrix * S = Soil SF = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air DS = Drum Solid DL = Drum Liquid T = Tissue WI = Wine LI = Liquid V = Vegetation X = Other	
Relinquished By		Date/Time	Received By		Date/Time		
Relinquished By		Date/Time	Received By		Date/Time		
Relinquished By		Date/Time	Received By		Date/Time		
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)					Disposed By	Date/Time



STL

Sample Check-in List

Date/Time Received: 5/3/07 1530

Client: PLW SDG #: W05172 NA ☐ SAF #: W07-005 NA ☐

Work Order Number: J7E040342 Chain of Custody # W07-005-38, 02, 70 & 78

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA ☐ Yes ☒ No ☐
2. Custody Seals dated and signed? NA ☐ Yes ☒ No ☐
3. Chain of Custody record present? Yes ☒ No ☐
4. Cooler temperature: _____ NA ☒ 5. Vermiculite/packing materials is NA ☒ Wet ☐ Dry ☐
6. Number of samples in shipping container: 4
7. Sample holding times exceeded? NA ☒ Yes ☐ No ☐
8. Samples have:
_____ tape _____ hazard labels
_____ custody seals _____ appropriate samples labels
9. Samples are:
_____ in good condition _____ leaking
_____ broken _____ have air bubbles
(Only for samples requiring head space)
10. Sample pH taken? NA ☐ pH<2 ☒ pH>2 ☒ pH>9 ☐
11. Sample Location, Sample Collector Listed? * Yes ☒ No ☐
*For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes ☐ No ☒
13. Description of anomalies (include sample numbers): _____

Sample Custodian: Er Daby Date: 5/3/07 1530

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

☐ No action necessary; process as is.

Project Manager _____ Date _____

[illegible]

PNNL <i>J7E070107</i> <i>W05172</i> <i>Aug 06-18-07</i>		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		C.O.C. # W07-005-54	
				Page <u>1</u> of <u>1</u>	
Collector Fluor Hanford R. T. SICKLE		Contact/Requester Dot Stewart		Telephone No. MSIN FAX 509-376-5056	
SAF No. W07-005		Sampling Origin Hanford Site		Purchase Order/Charge Code	
Project Title RCRA, MAY 2007		<i>HNF-N-506 8</i>		Ice Chest No. <i>SM 132</i> Temp.	
Shipped To (Lab) Severn Trent Incorporated, Richland		Method of Shipment Govt. Vehicle		Bill of Lading/Air Bill No.	
Protocol RCRA		Priority: 45 Days		Offsite Property No.	
POSSIBLE SAMPLE HAZARDS/REMARKS ** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)			SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All Labs except WSCF: Batch all samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days. WSCF: Batch all GW samples submitted into one SDG, daily closure.		

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1N4K5		W	<i>5-4-07</i>	<i>0858</i>	1x20-mL P	Activity Scan	None
B1N4K5		W	↓	↓	3x1000-mL G/P	TC99_SEP_LSC: Tc-99 (1)	HCl to pH <2
B1N4K5		W	↓	↓	1x500-mL G/P	UTOT_KPA: Uranium (1)	HNO3 to pH <2
B1N4K5		W	↓	↓	1x1000-mL P	906.0_H3_LSC: Tritium (1)	None
						<i>TWEPG</i>	

Relinquished By Fluor Hanford R. T. SICKLE	Print <i>[Signature]</i> Sign	Date/Time <i>1410</i> MAY 04 2007	Received By <i>ERIC Daryl</i> <i>En Daryl</i>	Print Sign	Date/Time <i>1410</i> MAY 04 2007	Matrix * S = Soil DS = Drum Solid SE = Sediment DI = Drum Liquid SO = Solid T = Tissue SL = Sludge WI = Wine W = Water L = Liquid O = Oil V = Vegetation A = Air X = Other
Relinquished By	Date/Time	Received By	Date/Time			
Relinquished By	Date/Time	Received By	Date/Time			
Relinquished By	Date/Time	Received By	Date/Time			
FINAL SAMPLE DISPOSITION		Disposal Method (e.g., Return to customer, per lab procedure, used in process)		Disposed By		Date/Time

[illegible]



STL

Sample Check-in List

Date/Time Received: 5/4/07 1410

Client: PGW SDG #: W05172 NA ☐ SAF #: W07-005 NA ☐

Work Order Number: J7E070107 Chain of Custody # W07-005-46, 54, 55, 132, 140, 144

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA ☐ Yes ☒ No ☐
2. Custody Seals dated and signed? NA ☐ Yes ☒ No ☐
3. Chain of Custody record present? Yes ☒ No ☐
4. Cooler temperature: _____ NA ☒ 5. Vermiculite/packing materials is NA ☒ Wet ☐ Dry ☐
6. Number of samples in shipping container: 6
7. Sample holding times exceeded? NA ☒ Yes ☐ No ☐
8. Samples have:
_____ tape _____ hazard labels
_____ custody seals ☒ appropriate samples labels
9. Samples are:
☒ in good condition _____ leaking
_____ broken _____ have air bubbles
(Only for samples requiring head space)
10. Sample pH taken? NA ☐ pH<2 ☒ pH>2 ☐ pH>9 ☐
11. Sample Location, Sample Collector Listed? * Yes ☒ No ☐
*For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes ☐ No ☒
13. Description of anomalies (include sample numbers): _____

Sample Custodian: Lu Darby Date: 5/4/07 1410

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

☐ No action necessary; process as is.

Project Manager _____ Date _____

PNNL		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			C.O.C. # S07-003-331	
		J7ED70109 W05172 Due 06-18-07			Page <u>1</u> of <u>1</u>	
Collector Fluor Hanford E.M. HALL		Contact/Requester Dot Stewart		Telephone No. 509-376-5056 MSIN FAX		
SAF No. S07-003		Sampling Origin Hanford Site		Purchase Order/Charge Code		
Project Title SURV. MARCH 2007		HNF-N-S06-6		Ice Chest No. SKINS.		Temp.
Shipped To (Lab) Severn Trent Incorporated, Richland		Method of Shipment Govt. Vehicle		Bill of Lading/Air Bill No.		
Protocol SURV		Priority: 45 Days		Offsite Property No.		
POSSIBLE SAMPLE HAZARDS/REMARKS ** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)				SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days. WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.		

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1MF90		W	5/4/7	1207	1x20-mL P	Activity Scan	None
B1MF90		W	↓	↓	3x1000-mL P	TRITIUM_ELECT_LSC_LL: H-3 (1)	None

Relinquished By Fluor Hanford E.M. HALL	Print	Sign	Date/Time MAY 04 2007	Received By ERIC DORLEY	Print	Sign	Date/Time MAY 04 2007	Matrix * S = Soil DS = Drum Solid SE = Sediment DI. = Drum Liquid SO = Solid T = Tissue SL = Sludge WI = Wine W = Water L. = Liquid O = Oil V = Vegetation A = Air X = Other
Relinquished By	Date/Time	Received By	Date/Time					
Relinquished By	Date/Time	Received By	Date/Time					
Relinquished By	Date/Time	Received By	Date/Time					
FINAL SAMPLE DISPOSITION		Disposal Method (e.g., Return to customer, per lab procedure, used in process)				Disposed By		Date/Time

PNNL		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST <i>J7E070109 W05172 Due 06-18-07</i>		C.O.C. # S07-003-346
				Page <u>1</u> of <u>1</u>
Collector Fluor Hanford F.M. HALL	Contact/Requester Dot Stewart	Telephone No. 509-376-5056	MSIN	FAX
SAF No. S07-003	Sampling Origin Hanford Site	Purchase Order/Charge Code		
Project Title SURV. MARCH 2007	HNF - N - 506 - 6	Ice Chest No. SKins	Temp.	
Shipped To (Lab) Severn Trent Incorporated, Richland	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No.		
Protocol SURV	Priority: 45 Days	Offsite Property No.		
POSSIBLE SAMPLE HAZARDS/REMARKS ** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)		SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days. WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.		

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time	Matrix * S = Soil DS = Drum Solid SE = Sediment DI. = Drum Liquid SO = Solid T = Tissue SL = Sludge WI = Wine W = Water L = Liquid O = Oil V = Vegetation A = Air X = Other
Relinquished By				Received By				
Relinquished By				Received By				
Relinquished By				Received By				
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)						Disposed By	Date/Time

Sample Check-in List

Date/Time Received: 5/4/07Client: PGW SDG #: W05172 NA ☐ SAF #: 507-003 NA ☐Work Order Number: J7E070109 Chain of Custody # 507-003-331, 339, 345, 346

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA ☐ Yes ☒ No ☐
2. Custody Seals dated and signed? NA ☐ Yes ☒ No ☐
3. Chain of Custody record present? Yes ☒ No ☐
4. Cooler temperature: _____ NA ☒ 5. Vermiculite/packing materials is NA ☒ Wet ☐ Dry ☐
6. Number of samples in shipping container: _____
7. Sample holding times exceeded? NA ☒ Yes ☐ No ☐
8. Samples have:
_____ tape _____ hazard labels
_____ custody seals _____ appropriate samples labels
9. Samples are:
_____ in good condition _____ leaking
_____ broken _____ have air bubbles
(Only for samples requiring head space)
10. Sample pH taken? NA ☐ pH < 2 ☒ pH > 2 ☒ pH > 9 ☐
11. Sample Location, Sample Collector Listed? * Yes ☒ No ☐
*For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes ☐ No ☒
13. Description of anomalies (include sample numbers): _____

Sample Custodian: Er Darby Date: 5/4/07 1300

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

☐ No action necessary; process as is.

Project Manager _____ Date _____

PNNL <i>J7E070112</i> <i>W05172</i> <i>Due 06-18-07</i>		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		C.O.C. # S07-004-296
		Page <u>1</u> of <u>1</u>		
Collector <i>Fluor Hanford</i> <i>P. M. HALL</i>	Contact/Requester Dot Stewart	Telephone No. MSIN FAX 509-376-5056		
SAF No. S07-004	Sampling Origin Hanford Site	Purchase Order/Charge Code		
Project Title SURV. APRIL 2007	<i>HNF - N - S06 - 6</i>	Ice Chest No. <i>SKINS</i> Temp.		
Shipped To (Lab) <i>Savern Trent Incorporated, Richland</i>	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No.		
Protocol SURV	Priority: 45 Days	Offsite Property No.		
POSSIBLE SAMPLE HAZARDS/REMARKS ** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)		SPECIAL INSTRUCTIONS Hold Time Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days. WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.		

Relinquished By Fluor Hanford F.M. HALL	Print <i>[Signature]</i>	Sign MAY 04 2007	Date/Time 1300	Received By <i>[Signature]</i>	Print <i>[Signature]</i>	Sign MAY 04 2007	Date/Time 1300	Matrix *	
Relinquished By	Date/Time	Received By	Date/Time					S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air	DS = Drum Solid DL = Drum Liquid T = Tissue WI = Wine L = Liquid V = Vegetation X = Other
Relinquished By	Date/Time	Received By	Date/Time						
Relinquished By	Date/Time	Received By	Date/Time						
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)			Disposed By			Date/Time		

Sample Check-in List

Date/Time Received: 5/4/07 1300Client: PGW SDG #: W05172 NA ☐ SAF #: 807-004 NA ☐Work Order Number: J7E070112 Chain of Custody # 807-004-294

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA ☐ Yes ☒ No ☐
2. Custody Seals dated and signed? NA ☐ Yes ☒ No ☐
3. Chain of Custody record present? Yes ☒ No ☐
4. Cooler temperature: _____ NA ☒ 5. Vermiculite/packing materials is NA ☒ Wet ☐ Dry ☐
6. Number of samples in shipping container: 1
7. Sample holding times exceeded? NA ☐ Yes ☐ No ☐
8. Samples have:
_____ tape _____ hazard labels
_____ custody seals _____ appropriate samples labels
9. Samples are:
_____ in good condition _____ leaking
_____ broken _____ have air bubbles
(Only for samples requiring head space)
10. Sample pH taken? NA ☐ pH < 2 ☐ pH > 2 ☒ pH > 9 ☐
11. Sample Location, Sample Collector Listed? * Yes ☒ No ☐
*For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes ☐ No ☒
13. Description of anomalies (include sample numbers): _____

Sample Custodian: Er Dooly Date: 5/4/07 1300

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

☐ No action necessary; process as is.

Project Manager _____ Date _____

Sample Check-in List

Date/Time Received: 05-07-07 1510Client: P6W SDG #: W05172 NA ☐ SAF #: I07-044 NA ☐Work Order Number: J7E080312 Chain of Custody # I07-044-126

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA ☐ Yes ☒ No ☐
2. Custody Seals dated and signed? NA ☐ Yes ☒ No ☐
3. Chain of Custody record present? Yes ☒ No ☐
4. Cooler temperature: _____ NA ☒ 5. Vermiculite/packing materials is NA ☒ Wet ☐ Dry ☐
6. Number of samples in shipping container: /
7. Sample holding times exceeded? NA ☒ Yes ☐ No ☐
8. Samples have:
_____ tape _____ hazard labels
_____ custody seals _____ appropriate samples labels
9. Samples are:
_____ in good condition _____ leaking
_____ broken _____ have air bubbles
(Only for samples requiring head space)
10. Sample pH taken? NA ☐ pH < 2 ☒ pH > 2 ☒ pH > 9 ☐
11. Sample Location, Sample Collector Listed? * Yes ☒ No ☐
*For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes ☐ No ☒
13. Description of anomalies (include sample numbers): _____

Sample Custodian: S. Smith Date: 05-07-07 15:10

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

☐ No action necessary; process as is.

Project Manager _____ Date _____

Sample Check-in List

Date/Time Received: 05-07-07 15:10Client: P6W SDG #: W05172 NA ☐ SAF #: 807-005 NA ☐Work Order Number: 07ED80313 Chain of Custody # 807-005-70

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA ☐ Yes ☒ No ☐
2. Custody Seals dated and signed? NA ☐ Yes ☒ No ☐
3. Chain of Custody record present? Yes ☒ No ☐
4. Cooler temperature: _____ NA ☒ 5. Vermiculite/packing materials is NA ☒ Wet ☐ Dry ☐
6. Number of samples in shipping container: 1
7. Sample holding times exceeded? NA ☒ Yes ☐ No ☐
8. Samples have:
_____ tape _____ hazard labels
_____ custody seals _____ appropriate samples labels
9. Samples are:
_____ in good condition _____ leaking
_____ broken _____ have air bubbles
(Only for samples requiring head space)
10. Sample pH taken? NA ☐ pH<2 ☒ pH>2 ☒ pH>9 ☐
11. Sample Location, Sample Collector Listed? * Yes ☒ No ☐
*For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes ☐ No ☒
13. Description of anomalies (include sample numbers): _____

Sample Custodian: L. Smith Date: 05-07-07 1510

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person contacted _____

☐ No action necessary; process as is.

Project Manager _____ Date _____

6/13/2007 11:41:36 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National LabAZ Gross Alpha PrpRC5014
S7 Gross Alpha by GPC using Am-241 curve
SI CLIENT: HANFORD

Pipet #: 235

AnalyDueDate: 06/18/2007

Sep1 DT/Tm Tech:

Batch: 7129617 WATER







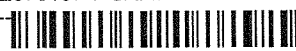
pCi/L

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ/4PA

Work Order, Lot, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JWA58-1-AC J7E040306-1-SAMP  05/03/2007 08:46	199.50g,in									
1.5 53.1 .50 10D 2021 6/18/07 OK										
AmtRec: 20ML,2XLP,2X4LP				#Containers: 5		Scr: Alpha: -2.37E-04 uCi/Sa		Beta: 1.92E-03 uCi/Sa		
2 JWEPQ-1-AC J7E070107-5-SAMP  05/04/2007 10:36	111.30g,in									
34.0 100 10F 1915										
AmtRec: 20ML,500ML,4XLP				#Containers: 6		Scr: Alpha: 2.43E-04 uCi/Sa		Beta: -1.22E-04 uCi/Sa		
3 JWEP5-1-AA J7E070109-2-SAMP  05/04/2007 10:36	200.70g,in									
55.2 .50 10A 2021										
AmtRec: 20ML,500MLP,LP				#Containers: 3		Scr: Alpha: 3.90E-07 uCi/Sa		Beta: 1.22E-04 uCi/Sa		
4 JWEP5-1-AF-X J7E070109-2-DUP  05/04/2007 10:36	201.80g,in									
54.0 10C 2021										
AmtRec: 20ML,500MLP,LP				#Containers: 3		Scr: Alpha: 3.90E-07 uCi/Sa		Beta: 1.22E-04 uCi/Sa		
5 JWEP6-1-AA J7E070109-3-SAMP  05/04/2007 11:23	200.60g,in									
54.7 10F 2021										
AmtRec: 20ML,500MLP,LP				#Containers: 3		Scr: Alpha: 1.98E-04 uCi/Sa		Beta: 5.67E-05 uCi/Sa		
6 JWEP8-1-AA J7E070109-4-SAMP  05/04/2007 11:23	199.40g,in									
0.8 10A 2125										
AmtRec: 20ML,500MLP,LP				#Containers: 3		Scr: Alpha: 1.02E-05 uCi/Sa		Beta: 1.70E-04 uCi/Sa		
7 JWFA8-1-AA J7E070107-7-SAMP  05/04/2007 12:20	198.80g,in									
36.9 10C										
AmtRec: LP				#Containers: 1		Scr: Alpha: -6.48E-05 uCi/Sa		Beta: 8.13E-05 uCi/Sa		

6/13/2007 11:41:39 AM

Sample Preparation/Analysis

Balance Id:1120482733

AZ Gross Alpha PrpRC5014

Pipet #: _____

S7 Gross Alpha by GPC using Am-241 curve

SI CLIENT: HANFORD

Sep1 DT/Tm Tech: _____

AnalyDueDate: 06/18/2007



Sep2 DT/Tm Tech: _____

Batch: 7129617

pCi/L

SEQ Batch, Test: None

Prep Tech: ,BockJ

Work Order, Lot, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 JWL3P-1-AA-B J7E090000-617-BLK 	198.50g,in									
05/04/2007 10:36	AmtRec:	#Containers: 1								
9 JWL3P-1-AC-C J7E090000-617-LCS 	200.80g,in		ASD4210 05/17/07,pd 02/09/06,r							
05/04/2007 10:36	AmtRec:	#Containers: 1								

Comments: JWEPQ-SAMP Comments. No sample sent labeled for alpha/beta. Used a bottle labeled for tech-99. JB 6/13/07" *Aliquot reduced due to weight screen, PA < 2.0 g 6-13-07*

All Clients for Batch:

384868, Pacific Northwest National Laboratory

Pacific Northwest National Lab, SA , 57671

JWA581AC-SAMP Constituent List:

ALPHA	RDL:3	pCi/L	LCL:	UCL:	RPD:
JWL3P1AA-BLK:					
ALPHA	RDL:3	pCi/L	LCL:	UCL:	RPD:
JWL3P1AC-LCS:					
Am-241	RDL:	pCi/L	LCL:70	UCL:130	RPD:20

JWA581AC-SAMP Calc Info:

Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
JWL3P1AA-BLK:				
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
JWL3P1AC-LCS:				
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B

Approved By _____ Date: _____

6/19/2007 3:34:21 PM

ICOC Fraction Transfer/Status Report

ByDate: 6/19/2006, 6/24/2007, Batch: '7129617', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting		Comments
7129617					
AC	CalcC	BockJ	6/13/2007 11:30:24		
SC		wagarr	IsBatched	5/9/2007 4:41:37 PM	ICOC_RADCALC v4.8.26
SC		BockJ	InPrep	6/13/2007 11:30:24 AM	RICH-RC-5016 Revision 7
SC		BockJ	Prep1C	6/13/2007 11:41:41 AM	RICH-RC-5014 REVISION 7
SC		AshworthA	InPrep2	6/15/2007 4:09:03 PM	RICH-RC-5014 REVISION 7
SC		AshworthA	Prep2C	6/18/2007 3:16:18 PM	RICH-RC-5014 REVISION 7
SC		DAWKINSO	InCnt1	6/18/2007 3:32:18 PM	RICH-RD-0003 REVISION 5
SC		BlackCL	CalcC	6/19/2007 9:20:06 AM	RICH-RD-0003 REVISION 5
AC		BockJ	6/13/2007 11:41:41		
AC		AshworthA	6/15/2007 4:09:03 PM		
AC		AshworthA	6/18/2007 3:16:18 PM		
AC		DAWKINSO	6/18/2007 3:32:18 PM		
AC		BlackCL	6/19/2007 9:20:06		

AC: Accepting Entry; SC: Status Change

STL Richland
Richland Wa.

6/13/2007 11:55:56 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory
Pacific Northwest National LabBC Gross Beta PrpRC5014
S8 Gross Beta by GPC using Sr/Y-90 curve
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 06/18/2007 *W05172*

Sep1 DT/Tm Tech:








Batch: 7129618 WATER pCi/L

PM, Quote: SA, 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ /APA

Work Order, Lot, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JWA58-1-AD J7E040306-1-SAMP  05/03/2007 08:46	198.10g,in									
<div> <div>1.5 50.6 100 31A 2003 1826 3/14/07 6/18/07 00</div> <div>AmtRec: 20ML,2XLP,2X4LP #Containers: 5</div> <div>Scr: Alpha: -2.37E-04 uCi/Sa Beta: 1.92E-03 uCi/Sa</div> </div>										
2 JWEPC-1-AC J7E070107-1-SAMP  05/04/2007 11:30	75.40g,in									
<div> <div>46.4 200 28B 2003 203 4/18/07 00</div> <div>AmtRec: 20ML,500ML,5XLP,4LP #Containers: 8</div> <div>Scr: Alpha: 1.76E-03 uCi/Sa Beta: -1.69E-03 uCi/Sa</div> </div>										
3 JWEPC-1-AD J7E070107-5-SAMP  05/04/2007 10:36	199.60g,in									
<div> <div>74.1 100 31B 1826 2003 6/18/07 00</div> <div>AmtRec: 20ML,500ML,4XLP #Containers: 6</div> <div>Scr: Alpha: 2.43E-04 uCi/Sa Beta: 1.22E-04 uCi/Sa</div> </div>										
4 JWEPC-1-AC J7E070109-2-SAMP  05/04/2007 10:36	198.40g,in									
<div> <div>106.0 31C</div> <div>AmtRec: 20ML,500MLP,LP #Containers: 3</div> <div>Scr: Alpha: 3.90E-07 uCi/Sa Beta: 1.22E-04 uCi/Sa</div> </div>										
5 JWEPC-1-AC J7E070109-3-SAMP  05/04/2007 11:23	184.90g,in									
<div> <div>93.3 31D</div> <div>AmtRec: 20ML,500MLP,LP #Containers: 3</div> <div>Scr: Alpha: 1.98E-04 uCi/Sa Beta: 5.67E-05 uCi/Sa</div> </div>										
6 JWEPC-1-AE-X J7E070109-3-DUP  05/04/2007 11:23	186.10g,in									
<div> <div>101.8 32B</div> <div>AmtRec: 20ML,500MLP,LP #Containers: 3</div> <div>Scr: Alpha: 1.98E-04 uCi/Sa Beta: 5.67E-05 uCi/Sa</div> </div>										
7 JWEPC-1-AC J7E070109-4-SAMP  05/04/2007 11:23	198.70g,in									
<div> <div>✓ 0.3 ✓ 32C 2003 1826</div> <div>AmtRec: 20ML,500MLP,LP #Containers: 3</div> <div>Scr: Alpha: 1.02E-05 uCi/Sa Beta: 1.70E-04 uCi/Sa</div> </div>										

STL Richland
Richland Wa.Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2
pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added

Page 1

ISV - Insufficient Volume for Analysis

WO Cnt: 7
Prep_SamplePrep v4.8.26

6/13/2007 11:55:59 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National LabBC Gross Beta PrpRC5014
S8 Gross Beta by GPC using Sr/Y-90 curve
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 06/18/2007


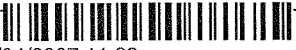

Sep1 DT/Tm Tech:

Batch: 7129618 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ

Work Order, Lot, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 JWFA8-1-AC J7E070107-7-SAMP  05/04/2007 12:20	199.70g,in									
<div>1:5 66.6 100 32A 1826 6/18/07 OK</div>										
9 JWL3Q-1-AA-B J7E090000-618-BLK  05/04/2007 11:23	201.10g,in									
<div>0.2 200 28C 2003</div>										
10 JWL3Q-1-AC-C J7E090000-618-LCS  05/04/2007 11:23	199.20g,in		BESB3069 03/23/07.pd 08/08/06.r							
<div>0.6 28D</div>										
Scr: Alpha: -6.48E-05 uCi/Sa Beta: 8.13E-05 uCi/Sa										

Comments: JWEPQ-SAMP "Comments. No sample sent labeled for alpha/beta. Used a bottle labeled for tech-99. JB 6/13/07"

Aliquots that are redoxed are due to weight screens. PH 2.0 98 6-13-07

All Clients for Batch:

384868, Pacific Northwest National Laboratory

Pacific Northwest National Lab, SA , 57671

JWA581AD-SAMP Constituent List:

BETA	RDL:4	pCi/L	LCL:	UCL:	RPD:
JWL3Q1AA-BLK:					
BETA	RDL:4	pCi/L	LCL:	UCL:	RPD:
JWL3Q1AC-LCS:					
Sr-90	RDL:	pCi/L	LCL:70	UCL:130	RPD:20

JWA581AD-SAMP Calc Info:

Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
JWL3Q1AA-BLK:				
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
JWL3Q1AC-LCS:				
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B

STL Richland Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 2

ISV - Insufficient Volume for Analysis

WO Cnt: 10

Richland Wa.

pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added

Prep_SamplePrep v4.8.26

6/13/2007 11:56:02 AM

Sample Preparation/Analysis

Balance Id:1120482733

BC Gross Beta PrpRC5014

Pipet #: _____

S8 Gross Beta by GPC using Sr/Y-90 curve

AnalyDueDate: 06/18/2007

5I CLIENT: HANFORD

Sep1 DT/Tm Tech:

Batch: 7129618

pCi/L

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ



Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
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Approved By _____ Date: _____

6/19/2007 10:55:48 AM

ICOC Fraction Transfer/Status Report

ByDate: 6/19/2006, 6/24/2007, Batch: '7129618', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting		Comments
7129618					
AC	CalcC	BockJ	6/13/2007 11:44:48		
SC		wagarr	IsBatched	5/9/2007 4:41:37 PM	ICOC_RADCALC v4.8.26
SC		BockJ	InPrep	6/13/2007 11:44:48 AM	RICH-RC-5016 Revision 7
SC		BockJ	Prep1C	6/13/2007 11:56:01 AM	RICH-RC-5014 REVISION 7
SC		AshworthA	InPrep2	6/15/2007 4:09:09 PM	RICH-RC-5014 REVISION 7
SC		AshworthA	Prep2C	6/18/2007 3:16:37 PM	RICH-RC-5014 REVISION 7
SC		DAWKINSO	InCnt1	6/18/2007 3:32:29 PM	RICH-RD-0003 REVISION 5
SC		DAWKINSO	CalcC	6/18/2007 10:12:52 PM	RICH-RD-0003 REVISION 5
AC		BockJ	6/13/2007 11:56:01		
AC		AshworthA	6/15/2007 4:09:09 PM		
AC		AshworthA	6/18/2007 3:16:37 PM		
AC		DAWKINSO	6/18/2007 3:32:29 PM		
AC		DAWKINSO	6/18/2007 10:12:52		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

6/13/2007 12:59:31 PM

Sample Preparation/Analysis

Balance Id:1120482733

AW Gamma PrpRC5017

TA Gamma by HPGE

Pipet #: _____

AnalyDueDate: 06/18/2007

5I CLIENT: HANFORD

Sep1 DT/Tm Tech:



Batch: 7129619

pCi/L

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ

Work Order, Lot, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 JWL3T-1-AA-B J7E090000-619-BLK 05/03/2007 12:13	1997.00g,in									
										
AmtRec:	#Containers: 1		Scr:		Alpha:		Beta:			
9 JWL3T-1-AC-C J7E090000-619-LCS 05/03/2007 12:13	1999.90g,in		QCAG1369 05/30/07,pd 03/07/05,r							
										
AmtRec:	#Containers: 1		Scr:		Alpha:		Beta:			

Comments: PH < 2.0 Y3 6-13-07

All Clients for Batch:

384868, Pacific Northwest National Laboratory

Pacific Northwest National Lab, SA , 57671

JWCG11AA-SAMP Constituent List:

Co-60	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:	Cs-134	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:
Cs-137	RDL:6.00E+00	pCi/L	LCL:70	UCL:130	RPD:20	Cs-137DA	RDL:6.00E+00	pCi/L	LCL:70	UCL:130	RPD:20
Eu-154	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:	Eu-155	RDL:.00E+00	pCi/L	LCL:	UCL:	RPD:
K-40	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:	Sb-125	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:

JWL3T1AA-BLK:

Co-60	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:	Cs-134	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:
Cs-137	RDL:6.00E+00	pCi/L	LCL:	UCL:	RPD:	Cs-137DA	RDL:6.00E+00	pCi/L	LCL:	UCL:	RPD:
Eu-154	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:	Eu-155	RDL:.00E+00	pCi/L	LCL:	UCL:	RPD:
K-40	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:	Sb-125	RDL:0.00E+00	pCi/L	LCL:	UCL:	RPD:

JWL3T1AC-LCS:

Cs-137	RDL:15	pCi/L	LCL:70	UCL:130	RPD:20	Cs-137DA	RDL:15	pCi/L	LCL:70	UCL:130	RPD:20
K-40	RDL:6	pCi/L	LCL:70	UCL:130	RPD:20	Ra-226	RDL:--	pCi/L	LCL:70	UCL:130	RPD:20
RA-228	RDL:--	pCi/L	LCL:70	UCL:130	RPD:20	RA-228DA	RDL:--	pCi/L	LCL:70	UCL:130	RPD:20
U-238	RDL:--	pCi/L	LCL:70	UCL:130	RPD:20						

JWCG11AA-SAMP Calc Info:

Uncert Level (#s): 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

JWL3T1AA-BLK:

STL Richland Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 2

ISV - Insufficient Volume for Analysis

WO Cnt: 9

Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added

Prep_SamplePrep v4.8.26

6/13/2007 12:59:34 PM

Sample Preparation/Analysis

Balance Id:1120482733

AW Gamma PrpRC5017

TA Gamma by HPGE

5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 06/18/2007

Sep1 DT/Tm Tech:

Batch: 7129619

pCi/L

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ



Work Order, Lot, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
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Uncert Level (#s) : 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B
JWL3T1AC-LCS:
Uncert Level (#s) : 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

6/21/2007 3:56:28 PM

ICOC Fraction Transfer/Status Report

ByDate: 6/21/2006, 6/26/2007, Batch: '7129619', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting		Comments
7129619					
AC		CalcC	BockJ	6/13/2007 12:45:33	
SC			wagarr	IsBatched 5/9/2007 4:41:37 PM	ICOC_RADCALC v4.8.26
SC			BockJ	InPrep 6/13/2007 12:45:33 PM	RICH-RC-5016 Revision 7
SC			BockJ	Prep1C 6/13/2007 12:59:33 PM	RICH-RC-5017 REVISION 6
SC			AshworthA	InPrep2 6/19/2007 9:09:26 AM	RICH-RC-5017 REVISION 6
SC			AshworthA	Prep2C 6/20/2007 4:28:56 PM	RICH-RC-5017 REVISION 6
SC			DAWKINSO	InCnt1 6/20/2007 5:05:45 PM	RICH-RD-0007 REVISION 6
SC			StringerR	CalcC 6/21/2007 7:55:01 AM	RICH-RD-0007 REVISION 6
AC			BockJ	6/13/2007 12:59:33	
AC			AshworthA	6/19/2007 9:09:26	
AC			AshworthA	6/20/2007 4:28:56 PM	
AC			DAWKINSO	6/20/2007 5:05:45 PM	
AC			StringerR	6/21/2007 7:55:01	

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

6/13/2007 1:14:10 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

BN I-129 Prp/SepRC5025

TB Gamma by LEPD

Pipet #:

AnalyDueDate: 06/18/2007

5I CLIENT: HANFORD

Sep1 DT/Tm Tech:

Batch: 7129613 WATER

pCi/L

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JWA5N-1-AA J7E040299-1-SAMP 05/03/2007 11:27	3905.30g,in	ITA6381 06/12/07		35.7	100	L2	1358	6/18/07		
AmtRec: 20ML,2X4LP #Containers: 3 Scr: Alpha: 1.33E-03 uCi/Sa Beta: -7.11E-04 uCi/Sa										
2 JWA5N-1-AC-X J7E040299-1-DUP 05/03/2007 11:27	3884.10g,in	ITA6382 06/12/07		35.0		L4	1400			
AmtRec: 20ML,2X4LP #Containers: 3 Scr: Alpha: 1.33E-03 uCi/Sa Beta: -7.11E-04 uCi/Sa										
3 JWA58-1-AE J7E040306-1-SAMP 05/03/2007 08:46	3934.90g,in	ITA6383 06/12/07		35.7		L5	1400			
AmtRec: 20ML,2XLP,2X4LP #Containers: 5 Scr: Alpha: -2.37E-04 uCi/Sa Beta: 1.92E-03 uCi/Sa										
4 JWEQK-1-AC J7E070112-1-SAMP 05/04/2007 09:20	3907.10g,in	ITA6384 06/12/07		34.0		L2	1615	6/15/07		
AmtRec: 20ML,LP,2X4LP #Containers: 4 Scr: Alpha: 1.65E-03 uCi/Sa Beta: -1.22E-03 uCi/Sa										
5 JWH5W-1-AA J7E080312-1-SAMP 05/07/2007 10:59	3884.20g,in	ITA6385 06/12/07		35.0		L4	1618	6/15/07		
AmtRec: 20ML,500ML,2X4LP #Containers: 4 Scr: Alpha: 1.01E-03 uCi/Sa Beta: 2.30E-04 uCi/Sa										
6 JWH50-1-AC J7E080313-1-SAMP 05/07/2007 09:36	3870.60g,in	ITA6386 06/12/07		34.6		L5	1619	6/15/07		
AmtRec: 20ML,500ML,LP,2X4LP #Containers: 5 Scr: Alpha: 9.72E-04 uCi/Sa Beta: -2.42E-04 uCi/Sa										
7 JWL3M-1-AA-B J7E090000-613-BLK 05/03/2007 11:27	3998.50g,in	ITA6387 06/12/07		34.4		L2	1809	6/15/07		
AmtRec: #Containers: 1 Scr: Alpha: Beta:										

6/13/2007 1:14:14 PM

Sample Preparation/Analysis

Balance Id:1120482733

BN I-129 Prp/SepRC5025

Pipet #: _____

TB Gamma by LEPD

Sep1 DT/Tm Tech:

AnalyDueDate: 06/18/2007

5I CLIENT: HANFORD

Sep2 DT/Tm Tech:

Batch: 7129613

pCi/L

Prep Tech: ,BockJ

SEQ Batch, Test: None

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Dish Size	Ppt or Geometry	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
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8 JWL3M-1-AC-C

3997.80g,in

ISD0753

06/13/07

J7E090000-613-LCS



05/03/2007 11:27

AmtRec:

#Containers: 1

Scr:

Alpha:

Beta:

Comments: pH - neutral JB 6-13-07

All Clients for Batch:

384868, Pacific Northwest National Laboratory

Pacific Northwest National Lab, SA , 57671

JWA5N1AA-SAMP Constituent List:

I-129	RDL:1.00E+00	pCi/L	LCL:	UCL:	RPD:
JWL3M1AA-BLK:					
I-129	RDL:1.00E+00	pCi/L	LCL:	UCL:	RPD:
JWL3M1AC-LCS:					
I-129	RDL:5	pCi/L	LCL:70	UCL:130	RPD:20

JWA5N1AA-SAMP Calc Info:

Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
JWL3M1AA-BLK:				
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
JWL3M1AC-LCS:				
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B

Approved By _____

Date: _____

6/18/2007 2:02:02 PM

ICOC Fraction Transfer/Status Report

ByDate: 6/18/2006, 6/23/2007, Batch: '7129613', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7129613						
AC	CalcC	BockJ	6/13/2007 12:04:23			
SC		wagarr	IsBatched	5/9/2007 4:41:37 PM	ICOC_RADCALC v4.8.26	
SC		BockJ	InPrep	6/13/2007 12:04:23 PM	RICH-RC-5016 Revision 7	
SC		BockJ	Prep1C	6/13/2007 1:14:14 PM	RICH-RC-5017 REVISION 6	
SC		BostedD	InPrep2	6/13/2007 1:18:13 PM	RICHRC5025 REV3	
SC		BostedD	Prep2C	6/15/2007 12:15:43 PM	RICHRC5025 REV3	
SC		BlackCL	InCnt1	6/15/2007 12:18:52 PM	RICH-RD-0007 REVISION 6	
SC		DAWKINSO	CalcC	6/15/2007 7:34:51 PM	RICH-RD-0007 REVISION 6	
AC		BockJ	6/13/2007 1:14:14 PM			
AC		BostedD	6/13/2007 1:18:13 PM			
AC		BostedD	6/15/2007 12:15:43			
AC		BlackCL	6/15/2007 12:18:52			
AC		DAWKINSO	6/15/2007 7:34:51 PM			

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

*** RE-COUNT REQUEST ***

DUE DATE 04/10/17



CUSTOMER Boyd
ANALYSIS TC99
MATRIX Urethane
LOT NUMBER 576 UUS342
SAMPLE DELIVERY GROUP _____
OLD BATCH NUMBER 7129611

LAB SAMPLE ID	REASON FOR REQUEST & ANALYSIS COMMENTS
1) <u>ALL</u>	<u>TS12 - please check, Urethane</u>
2)	
3)	
4)	
5)	
6)	
7)	
8)	
9)	
10)	
11)	
12)	
13)	
14)	
15)	
16)	
17)	
18)	
19)	
20)	

6/20/2007 12:49:06 PM

Sample Preparation/Analysis

Balance Id:

FP Tc-99 Prp/SepRC5065

Pipet #: _____

S5 Technetium-99 by Liquid Scint

5I CLIENT: HANFORD

Sep1 DT/Tm Tech:

AnalyDueDate: 06/18/2007

Sep2 DT/Tm Tech:

Batch: 7171388

pCi/L

SEQ Batch, Test: None

Prep Tech:



Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
---------------------------------	--------------------	-------------------------	-----------------------------	--------------------------------	------------------------	-------------------	----------------	---------------------------------	--------------------------	-----------

8 JWL3K-2-AA-B

J7E090000-611-BLK



05/07/2007 10:59

AmtRec:

#Containers: 1

Scr:

Alpha:

Beta:

9 JWL3K-2-AC-C

J7E090000-611-LCS



05/07/2007 10:59

AmtRec:

#Containers: 1

Scr:

Alpha:

Beta:

10 JWL3K-2-AD-BN

J7E090000-611-IBLK



05/07/2007 10:59

AmtRec:

#Containers: 1

Scr:

Alpha:

Beta:

Comments:

All Clients for Batch:

384868, Pacific Northwest National Laboratory

Pacific Northwest National Lab, SA , 57671

JWCG12AC-SAMP Constituent List:

Tc-99 RDL:15 pCi/L LCL:70 UCL:130 RPD:20

JWEPW2AF-MS:

JWL3K2AA-BLK:

Tc-99 RDL:15 pCi/L LCL: UCL: RPD:

JWL3K2AC-LCS:

Tc-99 RDL:15 pCi/L LCL:70 UCL:130 RPD:20

JWL3K2AD-IBLK:

Tc-99 RDL:15 pCi/L LCL: UCL: RPD:

JWCG12AC-SAMP Calc Info:

Uncert Level (#s): 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

JWEPW2AF-MS:

Uncert Level (#s): 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

STL Richland Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 2

ISV - Insufficient Volume for Analysis

WO Cnt: 10

Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added

ICOC v4.8.26

6/20/2007 12:49:10 PM

Sample Preparation/Analysis

Balance Id: _____

FP Tc-99 Prp/SepRC5065

Pipet #: _____

S5 Technetium-99 by Liquid Scint

Sep1 DT/Tm Tech: _____

AnalyDueDate: 06/18/2007

5I CLIENT: HANFORD

Sep2 DT/Tm Tech: _____

Batch: 7171388

pCi/L

Prep Tech: _____

SEQ Batch, Test: None



Work Order, Lot, Sample Date	Total Amt /Unit	Total Acidified/Unit	Initial Aliquot Amt/Unit	Adj Aliq Amt (Un-Acidified)	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
---------------------------------	--------------------	-------------------------	-----------------------------	--------------------------------	------------------------	-------------------	----------------	---------------------------------	--------------------------	-----------

JWL3K2AA-BLK:

Uncert Level (#s): 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

JWL3K2AC-LCS:

Uncert Level (#s): 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

JWL3K2AD-IBLK:

Uncert Level (#s): 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

6/22/2007 10:35:49 AM

ICOC Fraction Transfer/Status Report

ByDate: 6/22/2006, 6/27/2007, Batch: '7171388', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting	Comments
7171388				
AC	CalcC	StringerR	6/20/2007 1:04:28 PM	
SC		antonsonl	IsBatched 6/20/2007 11:39:56 AM	ICOC_RADCALC v4.8.26
SC		StringerR	InCnt1 6/20/2007 1:04:28 PM	RICH-RD-0001 REVISION 4
SC		BlackCL	CalcC 6/21/2007 10:39:16 AM	RICH-RD-0001 REVISION 4
AC		BlackCL	6/21/2007 10:39:16	

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

6/13/2007 10:08:20 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National LabAM Tc-99 Prp/SepRC5078
S5 Technetium-99 by Liquid Scint
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 06/18/2007 *WOS172*








Sep1 DT/Tm Tech:

Batch: 7129612 WATER pCi/L PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None All Tests: 7129611 FPS5, 7129612 AMS5, 7129616 DHSS, 7129619 AWTa, 7129620 ARS6,

Prep Tech: BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JWCJC-1-AF J7E040342-3-SAMP  05/03/2007 10:56	124.80g,in			<i>600</i>				
						Scr: Alpha: 3.68E-03 uCi/Sa	Beta: 4.36E-04 uCi/Sa	
2 JWEPC-1-AE J7E070107-1-SAMP  05/04/2007 11:30	126.80g,in							
						Scr: Alpha: 1.76E-03 uCi/Sa	Beta: -1.69E-03 uCi/Sa	
3 JWEPC-1-AG-X J7E070107-1-DUP  05/04/2007 11:30	125.00g,in							
						Scr: Alpha: 1.76E-03 uCi/Sa	Beta: -1.69E-03 uCi/Sa	
4 JWEPC-1-AC J7E070107-2-SAMP  05/04/2007 08:58	126.80g,in							
						Scr: Alpha: -4.63E-05 uCi/Sa	Beta: 8.51E-04 uCi/Sa	
5 JWEPC-1-AE-S J7E070107-2-MS  05/04/2007 08:58	124.50g,in		TCSG1822 06/05/07,pd 01/10/06,r					
						Scr: Alpha: -4.63E-05 uCi/Sa	Beta: 8.51E-04 uCi/Sa	
6 JWEPC-1-AC J7E070107-3-SAMP  05/04/2007 08:58	125.50g,in							
						Scr: Alpha: 4.38E-04 uCi/Sa	Beta: -1.22E-04 uCi/Sa	
7 JWEPC-1-AC J7E070107-4-SAMP  05/04/2007 09:56	127.10g,in							
						Scr: Alpha: 6.02E-05 uCi/Sa	Beta: 6.57E-04 uCi/Sa	

6/13/2007 10:08:24 AM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory
Pacific Northwest National LabAM Tc-99 Prp/SepRC5078
S5 Technetium-99 by Liquid Scint
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 06/18/2007

Sep1 DT/Tm Tech:

Batch: 7129612 WATER





pCi/L

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 JWE PQ-1-AE J7E070107-5-SAMP  05/04/2007 10:36	125.40g,in			60				
AmtRec: 20ML,500ML,4XLP #Containers: 6 Scr: Alpha: 2.43E-04 uCi/Sa Beta: -1.22E-04 uCi/Sa								
9 JWL3L-1-AA-B J7E090000-612-BLK  05/04/2007 11:30	125.60g,in							
AmtRec: #Containers: 1 Scr: Alpha: Beta:								
10 JWL3L-1-AC-C J7E090000-612-LCS  05/04/2007 11:30	125.00g,in		TCSE2117 05/09/07,pd 01/10/06,r					
AmtRec: #Containers: 1 Scr: Alpha: Beta:								
11 JWL3L-1-AD-BN J7E090000-612-IBLK  05/04/2007 11:30								
AmtRec: #Containers: 1 Scr: Alpha: Beta:								

Comments: PA 2.0 36-13-07

All Clients for Batch:

384868, Pacific Northwest National Laboratory

Pacific Northwest National Lab, SA , 57671

JWCJC1AF-SAMP Constituent List:

Tc-99 RDL:1.50E+01 pCi/L LCL:70 UCL:130 RPD:20

JWE PG1AE-MS:

JWL3L1AA-BLK:

Tc-99 RDL:1.50E+01 pCi/L LCL: UCL: RPD:

JWL3L1AC-LCS:

Tc-99 RDL:15 pCi/L LCL:70 UCL:130 RPD:20

STL Richland Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 2

ISV - Insufficient Volume for Analysis

WO Cnt: 11

Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added

Prep_SamplePrep v4.8.26

6/13/2007 10:08:28 AM

Sample Preparation/Analysis

Balance Id:

AM Tc-99 Prp/SepRC5078
S5 Technetium-99 by Liquid Scint
5I CLIENT: HANFORD

Pipet #:

AnalyDueDate: 06/18/2007

Sep1 DT/Tm Tech:

Batch: 7129612

pCi/L

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech:



Work Order, Lot, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
--------------------------------------	-------------------	-----------------------------	------------------------	-------------------	----------------	---------------------------------	--------------------------	-----------

JWL3L1AD-IBLK:

Tc-99 RDL:1.50E+01 pCi/L LCL: UCL: RPD:

JWCJC1AF-SAMP Calc Info:

Uncert Level (#s): 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

JWEPG1AE-MS:

Uncert Level (#s): 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

JWL3L1AA-BLK:

Uncert Level (#s): 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

JWL3L1AC-LCS:

Uncert Level (#s): 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

JWL3L1AD-IBLK:

Uncert Level (#s): 2 Decay to SaDt: Y Blk Subt.: N Sci.Not.: Y ODRs: B

Approved By _____ Date: _____

6/20/2007 4:01:51 PM

ICOC Fraction Transfer/Status Report

ByDate: 6/20/2006, 6/25/2007, Batch: '7129612', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting		Comments
7129612					
AC	CalcC	BockJ	6/13/2007 9:53:34		
SC		wagarr	IsBatched	5/9/2007 4:41:37 PM	ICOC_RADCALC v4.8.26
SC		BockJ	InPrep	6/13/2007 9:53:34 AM	RICH-RC-5016 Revision 7
SC		BockJ	Prep1C	6/13/2007 10:08:22 AM	RICH-RC-5016 REVISION 7
SC		FABREM	Sep1C	6/18/2007 11:30:15 AM	RICH-RC-5078 REV 4
SC		BlackCL	InCnt1	6/18/2007 11:39:36 AM	RICH-RD-0001 REVISION 4
SC		BlackCL	CalcC	6/19/2007 12:14:36 PM	RICH-RD-0001 REVISION 4
AC		BockJ	6/13/2007 10:08:22		
AC		FABREM	6/18/2007 11:30:15		
AC		BlackCL	6/18/2007 11:39:36		
AC		BlackCL	6/19/2007 12:14:36		

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

Page 1

Grp Rec Cnt: 5

ICOCFractions v4.8.26

AC: Accepting Entry; SC: Status Change

STL Richland

Richland Wa.

5/9/2007 4:39:07 PM

Sample Preparation/Analysis

Balance Id: 12445

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National LabAR H-3 Prp/SepRC5007
S6 Tritium by Liquid Scint
SI CLIENT: HANFORD

Pipet #:

AnalyDueDate: 06/18/2007

W05172

Sep1 DT/Tm Tech: 6-15-07

Batch: 7129620 WATER








pCi/L

PM, Quote: SA, 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech:

Work Order, Lot, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JWA58-1-AA J7E040306-1-SAMP 								
05/03/2007 08:46		AmtRec: 20ML,2XLP,2X4LP	#Containers: 5			Scr:	Alpha:	Beta:
2 JWCHW-1-AA J7E040342-2-SAMP 								
05/03/2007 09:55		AmtRec: 20ML,2X500ML,LP,4LP	#Containers: 5			Scr:	Alpha:	Beta:
3 JWCJC-1-AA J7E040342-3-SAMP 								
05/03/2007 10:56		AmtRec: 20ML,500ML,4XLP,4LP	#Containers: 7			Scr:	Alpha:	Beta:
4 JWCJM-1-AA J7E040342-4-SAMP 								
05/03/2007 12:42		AmtRec: 20ML,2X500ML,LP,4LP	#Containers: 5			Scr:	Alpha:	Beta:
5 JWEPC-1-AA J7E070107-1-SAMP 								
05/04/2007 11:30		AmtRec: 20ML,500ML,5XLP,4LP	#Containers: 8			Scr:	Alpha:	Beta:
6 JWEPG-1-AA J7E070107-2-SAMP 								
05/04/2007 08:58		AmtRec: 20ML,500ML,4XLP	#Containers: 6			Scr:	Alpha:	Beta:
7 JWEPK-1-AA J7E070107-3-SAMP 								
05/04/2007 08:58		AmtRec: 20ML,500ML,4XLP	#Containers: 6			Scr:	Alpha:	Beta:

5/9/2007 4:39:09 PM

Sample Preparation/Analysis

Balance Id: 12445

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National LabAR H-3 Prp/SepRC5007
S6 Tritium by Liquid Scint
5I CLIENT: HANFORD

Pipet #:

AnalyDueDate: 06/18/2007

Sep1 DT/Tm Tech: 6-15-07

Batch: 7129620 WATER








pCi/L

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech:

Work Order, Lot, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 JWEPK-1-AE-X J7E070107-3-DUP 								
05/04/2007 08:58		AmtRec: 20ML,500ML,4XLP	#Containers: 6			Scr:	Alpha:	Beta:
9 JWEPP-1-AA J7E070107-4-SAMP 								
05/04/2007 09:56		AmtRec: 20ML,500ML,4XLP	#Containers: 6			Scr:	Alpha:	Beta:
10 JWEPP-1-AA J7E070107-5-SAMP 								
05/04/2007 10:36		AmtRec: 20ML,500ML,4XLP	#Containers: 6			Scr:	Alpha:	Beta:
11 JWEPP-1-AA J7E070107-6-SAMP 								
05/04/2007 12:20		AmtRec: 20ML,2X500ML,LP,4LP	#Containers: 5			Scr:	Alpha:	Beta:
12 JWEQK-1-AA J7E070112-1-SAMP 								
05/04/2007 09:20		AmtRec: 20ML,LP,2X4LP	#Containers: 4			Scr:	Alpha:	Beta:
13 JWH50-1-AA J7E080313-1-SAMP 								
05/07/2007 09:36		AmtRec: 20ML,500ML,LP,2X4LP	#Containers: 5			Scr:	Alpha:	Beta:
14 JWL3V-1-AA-B J7E090000-620-BLK 								
05/04/2007 08:58		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

5/9/2007 4:39:10 PM

Sample Preparation/Analysis

Balance Id: 12445

AR H-3 Prp/SepRC5007
S6 Tritium by Liquid Scint
5I CLIENT: HANFORD

Pipet #:

AnalyDueDate: 06/18/2007

Sep1 DT/Tm Tech: 6-15-07







Batch: 7129620

pCi/L

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech:

Work Order, Lot, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
15 JWL3V-1-AC-C J7E090000-620-LCS  05/04/2007 08:58 AmtRec: #Containers: 1 Scr: Alpha: Beta:								
16 JWL3V-1-AD-BX J7E090000-620-MBLK  05/04/2007 08:58 AmtRec: #Containers: 1 Scr: Alpha: Beta:								
17 JWL3V-1-AE-CM J7E090000-620-MLCS  05/04/2007 08:58 AmtRec: #Containers: 1 Scr: Alpha: Beta:								
18 JWL3V-1-AF-BN J7E090000-620-IBLK  05/04/2007 08:58 AmtRec: #Containers: 1 Scr: Alpha: Beta:								
19 JWL3V-1-AG-BN J7E090000-620-IBLK  05/04/2007 08:58 AmtRec: #Containers: 1 Scr: Alpha: Beta:								
20 JWL3V-1-AH-BN J7E090000-620-IBLK  05/04/2007 08:58 AmtRec: #Containers: 1 Scr: Alpha: Beta:								
STL Richland Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 3 ISV - Insufficient Volume for Analysis WO Cnt: 20 Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added ICOC v4.8.26								

5/9/2007 4:39:18 PM

Sample Preparation/Analysis

Balance Id:

12445

AR H-3 Prp/SepRC5007
S6 Tritium by Liquid Scint
5I CLIENT: HANFORD

Pipet #:

AnalyDueDate: 06/18/2007

Sep1 DT/Tm Tech:

6-15-07 gm

Batch: 7129620

pCi/L

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech:

Work Order, Lot, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
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Comments:

All Clients for Batch:

384868, Pacific Northwest National Laboratory

Pacific Northwest National Lab, SA , 57671

JWA581AA-SAMP Constituent List:

H-3	RDL:400	pCi/L	LCL:70	UCL:130	RPD:20
JWL3V1AA-BLK:					
H-3	RDL:400	pCi/L	LCL:	UCL:	RPD:
JWL3V1AC-LCS:					
H-3	RDL:400	pCi/L	LCL:70	UCL:130	RPD:20
JWL3V1AD-MBLK:					
H-3	RDL:400	pCi/L	LCL:	UCL:	RPD:
JWL3V1AE-MLCS:					
H-3	RDL:400	pCi/L	LCL:70	UCL:130	RPD:20
JWL3V1AF-IBLK:					
H-3	RDL:400	pCi/L	LCL:	UCL:	RPD:
JWL3V1AG-IBLK:					
H-3	RDL:400	pCi/L	LCL:	UCL:	RPD:
JWL3V1AH-IBLK:					
H-3	RDL:400	pCi/L	LCL:	UCL:	RPD:

JWA581AA-SAMP Calc Info:

Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
JWL3V1AA-BLK:				
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
JWL3V1AC-LCS:				
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
JWL3V1AD-MBLK:				
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
JWL3V1AE-MLCS:				
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
JWL3V1AF-IBLK:				
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
JWL3V1AG-IBLK:				
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B
JWL3V1AH-IBLK:				
Uncert Level (#s): 2	Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B

5/9/2007 4:39:18 PM

Sample Preparation/Analysis

Balance Id: _____

AR H-3 Prp/SepRC5007
S6 Tritium by Liquid Scint
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 06/18/2007

Sep1 DT/Tm Tech: _____

Batch: 7129620

pCi/L

Sep2 DT/Tm Tech: _____

SEQ Batch, Test: None

Prep Tech: _____



Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
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Approved By _____ Date: _____

6/18/2007 4:14:19 PM

ICOC Fraction Transfer/Status Report

ByDate: 6/18/2006, 6/23/2007, Batch: '7129620', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting			Comments
7129620						
AC		CalcC	McDowellID	6/15/2007 8:18:27		
SC			wagarr	IsBatched	5/9/2007 4:41:37 PM	ICOC_RADCALC v4.8.26
SC			McDowellID	InSep1	6/15/2007 8:18:27 AM	RICH-RC-5007 REVISION 6
SC			McDowellID	Sep1C	6/15/2007 12:02:48 PM	RICH-RC-5007 REVISION 6
SC			StringerR	InCnt1	6/15/2007 1:10:31 PM	RICH-RD-0001 REVISION 4
SC			StringerR	CalcC	6/17/2007 12:40:51 PM	RICH-RD-0001 REVISION 4
AC			McDowellID	6/15/2007 12:02:48		
AC			McDowellID	6/15/2007 1:08:40 PM		
AC			StringerR	6/15/2007 1:10:31 PM		
AC			StringerR	6/17/2007 12:40:51		

AC: Accepting Entry; SC: Status Change

STL Richland
Richland Wa.

5/9/2007 4:39:18 PM

Sample Preparation/Analysis

Balance Id: 12424

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National LabAS H-3 Prp/SepRC5024
U3 Enriched Tritium by Liquid Scint

Pipet #:

AnalyDueDate: 06/18/2007

WDS178

5I CLIENT: HANFORD

Sep1 DT/Tm Tech: 525-0744

Batch: 7129621 WATER

pCi/L

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech:

Work Order, Lot, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
--------------------------------------	-------------------	-----------------------------	------------------------	-------------------	----------------	---------------------------------	--------------------------	-----------

1 JWEP1-1-AA

J7E070109-1-SAMP



05/04/2007 12:07

AmtRec: 20ML,3XLP

#Containers: 4

Scr:

Alpha:

Beta:

2 JWEP1-1-AC-X

J7E070109-1-DUP



05/04/2007 12:07

AmtRec: 20ML,3XLP

#Containers: 4

Scr:

Alpha:

Beta:

3 JWL3X-1-AA-B

J7E090000-621-BLK



05/04/2007 12:07

AmtRec:

#Containers: 1

Scr:

Alpha:

Beta:

4 JWL3X-1-AC-C

J7E090000-621-LCS



05/04/2007 12:07

AmtRec:

#Containers: 1

Scr:

Alpha:

Beta:

5 JWL3X-1-AD-BN

J7E090000-621-IBLK



05/04/2007 12:07

AmtRec:

#Containers: 1

Scr:

Alpha:

Beta:

Comments:

All Clients for Batch:

384868, Pacific Northwest National Laboratory

Pacific Northwest National Lab, SA , 57671

JWEP11AA-SAMP Constituent List:

H-3 RDL:1.00E+01 pCi/L LCL:70 UCL:130 RPD:20

STL Richland Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 1

ISV - Insufficient Volume for Analysis

WO Cnt: 5

Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added

ICOC v4.8.26

5/9/2007 4:39:23 PM

Sample Preparation/Analysis

Balance Id: 12424

AS H-3 Prp/SepRC5024
U3 Enriched Tritium by Liquid Scint
5l CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 06/18/2007

Sep1 DT/Tm Tech: 5-25-07an

Batch: 7129621

pCi/L

Sep2 DT/Tm Tech: _____

SEQ Batch, Test: None

Prep Tech: _____

Prep Tech:									
Work Order, Lot, Sample Date/Time		Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
JWL3X1AA-BLK:									
H-3	RDL:1.00E+01	pCi/L	LCL:	UCL:	RPD:				
JWL3X1AC-LCS:									
H-3	RDL:10	pCi/L	LCL:70	UCL:130	RPD:20				
JWL3X1AD-IBLK:									
H-3	RDL:1.00E+01	pCi/L	LCL:	UCL:	RPD:				
JWEP11AA-SAMP Calc Info:									
Uncert Level (#s): 2		Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B				
JWL3X1AA-BLK:									
Uncert Level (#s): 2		Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B				
JWL3X1AC-LCS:									
Uncert Level (#s): 2		Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B				
JWL3X1AD-IBLK:									
Uncert Level (#s): 2		Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B				

Approved By _____ Date: _____

6/18/2007 4:04:35 PM

ICOC Fraction Transfer/Status Report

ByDate: 6/18/2006, 6/23/2007, Batch: '7129621', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting		Comments
7129621					
AC		CalcC	McDowellID	5/14/2007 1:11:07 PM	
SC			wagarr	IsBatched 5/9/2007 4:41:37 PM	ICOC_RADCALC v4.8.26
SC			McDowellID	InPrep 5/14/2007 1:11:07 PM	RICH-RC-5024 REVISION 2
SC			McDowellID	Sep1C 6/14/2007 3:21:24 PM	RICH-RC-5024 REVISION 2
SC			DAWKINSO	InCnt1 6/14/2007 4:00:46 PM	RICH-RD-0001 REVISION 4
SC			BlackCL	CalcC 6/18/2007 8:16:56 AM	RICH-RD-0001 REVISION 4
AC			McDowellID	6/14/2007 3:21:24 PM	
AC			DAWKINSO	6/14/2007 4:00:46 PM	
AC			BlackCL	6/18/2007 8:16:56	

AC: Accepting Entry; SC: Status Change

STL Richland
Richland Wa.

6/14/2007 2:19:32 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National Lab

DH UNat_Laser PrpRC5015

SS Total Uranium by KPA

Pipet #: _____

AnalyDueDate: 06/18/2007 *W05172*

5I CLIENT: HANFORD

Sep1 DT/Tm Tech:

Batch: 7129616 WATER

ug/L

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
1 JWCG1-1-AD	26.90g,in							
J7E040342-1-SAMP								
05/03/2007 12:13		AmtRec: 20ML,2X500ML,4LP	#Containers: 4			Scr: Alpha: 4.31E-06 uCi/Sa	Beta: -9.90E-07 uCi/Sa	
2 JWCHW-1-AE	25.10g,in							
J7E040342-2-SAMP								
05/03/2007 09:55		AmtRec: 20ML,2X500ML,LP,4LP	#Containers: 5			Scr: Alpha: 1.80E-03 uCi/Sa	Beta: -2.11E-04 uCi/Sa	
3 JWCJC-1-AE	25.30g,in							
J7E040342-3-SAMP								
05/03/2007 10:56		AmtRec: 20ML,500ML,4XLP,4LP	#Containers: 7			Scr: Alpha: 3.68E-03 uCi/Sa	Beta: 4.36E-04 uCi/Sa	
4 JWCJM-1-AE	25.30g,in							
J7E040342-4-SAMP								
05/03/2007 12:42		AmtRec: 20ML,2X500ML,LP,4LP	#Containers: 5			Scr: Alpha: 1.80E-03 uCi/Sa	Beta: 2.43E-04 uCi/Sa	
5 JWEPC-1-AF	25.60g,in							
J7E070107-1-SAMP								
05/04/2007 11:30		AmtRec: 20ML,500ML,5XLP,4LP	#Containers: 8			Scr: Alpha: 1.76E-03 uCi/Sa	Beta: -1.69E-03 uCi/Sa	
6 JWEPG-1-AD	25.10g,in							
J7E070107-2-SAMP								
05/04/2007 08:58		AmtRec: 20ML,500ML,4XLP	#Containers: 6			Scr: Alpha: -4.63E-05 uCi/Sa	Beta: 8.51E-04 uCi/Sa	
7 JWEPK-1-AD	25.80g,in							
J7E070107-3-SAMP								
05/04/2007 08:58		AmtRec: 20ML,500ML,4XLP	#Containers: 6			Scr: Alpha: 4.38E-04 uCi/Sa	Beta: -1.22E-04 uCi/Sa	

STL Richland

Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2

Page 1

ISV - Insufficient Volume for Analysis

WO Cnt: 7

Richland Wa.

pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added

Prep_SamplePrep v4.8.26

6/14/2007 2:19:35 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National LabDH UNat_Laser PrpRC5015
SS Total Uranium by KPA
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 06/18/2007

Sep1 DT/Tm Tech:

Batch: 7129616 WATER








ug/L

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
8 JWEPP-1-AD J7E070107-4-SAMP  05/04/2007 09:56	25.90g,in							
9 JWEPP-1-AF J7E070107-5-SAMP  05/04/2007 10:36	27.00g,in							
10 JWEPP-1-AE J7E070107-6-SAMP  05/04/2007 12:20	26.40g,in							
11 JWEPP-1-AD J7E070109-2-SAMP  05/04/2007 10:36	27.90g,in							
12 JWEPP-1-AE-S J7E070109-2-MS  05/04/2007 10:36	25.60g,in		UNSF3765 06/14/07,pd 01/23/07,r					
13 JWEPP-1-AD J7E070109-3-SAMP  05/04/2007 11:23	25.40g,in							
14 JWEPP-1-AD J7E070109-4-SAMP  05/04/2007 11:23	27.60g,in							
STL Richland Richland Wa.	Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added			Page 2	ISV - Insufficient Volume for Analysis			WO Cnt: 14 Prep_SamplePrep v4.8.26

6/14/2007 2:19:37 PM

Sample Preparation/Analysis

Balance Id:1120482733

384868, Pacific Northwest National Laboratory ,
Pacific Northwest National LabDH UNat_Laser PrpRC5015
SS Total Uranium by KPA
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 06/18/2007

Sep1 DT/Tm Tech:

Batch: 7129616 WATER

ug/L

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ

Work Order, Lot, Sample DateTime	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
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15 JWH50-1-AD

25.60g,in

J7E080313-1-SAMP



05/07/2007 09:36

AmtRec: 20ML,500ML,LP,2X4LP #Containers: 5

Scr: Alpha: 9.72E-04 uCi/Sa

Beta: -2.42E-04 uCi/Sa

16 JWH50-1-AE-X

25.10g,in

J7E080313-1-DUP



05/07/2007 09:36

AmtRec: 20ML,500ML,LP,2X4LP #Containers: 5

Scr: Alpha: 9.72E-04 uCi/Sa

Beta: -2.42E-04 uCi/Sa

17 JWL3N-1-AA-B

26.00g,in

J7E090000-616-BLK



05/07/2007 09:36

AmtRec: #Containers: 1

Scr: Alpha:

Beta:

18 JWL3N-1-AC-C

26.00g,in

J7E090000-616-LCS



05/07/2007 09:36

AmtRec: #Containers: 1

Scr: Alpha:

Beta:

19 JWL3N-1-AD-C

25.50g,in

J7E090000-616-LCS



05/07/2007 09:36

AmtRec: #Containers: 1

Scr: Alpha:

Beta:

Comments: JWEPQ-SAMP Comments PH 2.093 6-14-07

All Clients for Batch:

384868, Pacific Northwest National Laboratory

Pacific Northwest National Lab, SA , 57671

JWCG11AD-SAMP Constituent List:

STL Richland Key: In - Initial Amt, fi - Final Amt, di - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 3
Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added

ISV - Insufficient Volume for Analysis

WO Cnt: 19
Prep_SamplePrep v4.8.26

6/14/2007 2:19:42 PM

Sample Preparation/Analysis

Balance Id:1120482733

DH UNat_Laser PrpRC5015
SS Total Uranium by KPA
5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 06/18/2007

Sep1 DT/Tm Tech:

Batch: 7129616

ug/L

Sep2 DT/Tm Tech:

SEQ Batch, Test: None

Prep Tech: ,BockJ

Prep Tech: ,BockJ										
Work Order, Lot, Sample DateTime		Total Amt/Unit	Initial Aliquot Amt/Unit		QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
Uranium RDL:1.44E-01		ug/L	LCL:	UCL:	RPD:					
JWEP51AE-MS:										
JWL3N1AA-BLK:										
Uranium RDL:1.44E-01		ug/L	LCL:	UCL:	RPD:					
JWL3N1AC-LCS:										
Uranium RDL:0.144343		ug/L	LCL:70	UCL:130	RPD:20					
JWL3N1AD-LCS:										
Uranium RDL:0.144343		ug/L	LCL:70	UCL:130	RPD:20					
JWCG11AD-SAMP Calc Info:										
Uncert Level (#s): 2		Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B					
JWEP51AE-MS:										
Uncert Level (#s): 2		Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B					
JWL3N1AA-BLK:										
Uncert Level (#s): 2		Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B					
JWL3N1AC-LCS:										
Uncert Level (#s): 2		Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B					
JWL3N1AD-LCS:										
Uncert Level (#s): 2		Decay to SaDt: Y	Blk Subt.: N	Sci.Not.: Y	ODRs: B					

Approved By _____ Date: _____

6/20/2007 10:50:54 AM

ICOC Fraction Transfer/Status Report

ByDate: 6/20/2006, 6/25/2007, Batch: '7129616', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting	Comments
7129616				
AC		Cnt1C	BockJ 6/14/2007 2:08:40 PM	
SC		wagarr	IsBatched 5/9/2007 4:41:37 PM	ICOC_RADCALC v4.8.26
SC		BockJ	InPrep 6/14/2007 2:08:40 PM	RICH-RC-5014 Revision 7
SC		BockJ	Prep1C 6/14/2007 2:19:39 PM	RICH-RC-5015 REVISION 6
SC		AshworthA	InPrep2 6/18/2007 8:48:42 AM	RICH-RC-5015 REVISION 6
SC		AshworthA	Prep2C 6/19/2007 10:06:05 AM	RICH-RC-5015 REVISION 6
SC		NelsonT	Cnt1C 6/19/2007 3:18:03 PM	RICH-RC-5058 REV 7
AC		BockJ	6/14/2007 2:19:39 PM	
AC		AshworthA	6/18/2007 8:48:42	
AC		AshworthA	6/19/2007 10:06:05	
AC		NelsonT	6/19/2007 3:18:03 PM	

AC: Accepting Entry; SC: Status Change

STL Richland
Richland Wa.